National Power Policy
2013

Government of Pakistan
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1. INTRODUCTION

The Ministry of Water and Power of the Government of Pakistan has developed an ambitious power policy to support the current and future energy needs of the country. This bold strategy will set Pakistan on a trajectory of rapid economic growth and social development. Simultaneously, it will address the key challenges of the power sector in order to provide much needed relief to the citizens of Pakistan.

This document will frame the broad contours of the energy policy articulating the vision for the power sector, highlighting its key challenges, setting major goals, summarizing policy principles, and highlighting the strategy devised to achieve Pakistan’s aspirations. This document does not elaborate on issues surrounding operational strategy, nor does it lay out detailed implementation plans.

The major sections of the report follow:
2. VISION

“Pakistan will develop the most efficient and consumer-centric power generation, transmission, and distribution system that meets the needs of its population and boosts its economy in a sustainable and affordable manner.”
3. **CHALLENGES**

Pakistan’s power sector is currently afflicted by a number of challenges that have led to a crisis:

1. A yawning supply-demand gap where the demand for electricity far outstrips the current generation capacity leading to gaps of up to 4,500 – 5,500 MW. The supply-demand gap has continuously grown over the past 5 years until reaching the existing levels. Such an enormous gap has led to load-shedding of 12-16 hours across the country.

2. Highly expensive generation of electricity (~Rs 12 / unit) due to an increased dependence on expensive thermal fuel sources (44% of total generation). RFO, HSD, and Mixed are the biggest sources of thermal electricity generation in Pakistan and range in price from ~Rs 12 / unit for mixed, to ~Rs 17 / unit for RFO, and a tremendously expensive ~Rs 23 / unit for HSD. Dependence on such expensive fuel sources has forced Pakistan to create electricity at rates that are not affordable to the nation and its populace.

3. A terribly inefficient power transmission and distribution system that currently records losses of 23-25% due to poor infrastructure, mismanagement, and theft of electricity. The cost of delivering a unit of electricity to the end consumer has been estimated at Rs. 14.70 by the NEPRA. This means that the inefficiencies are costing the tax payers additional 2.70 rupees per unit over and above the cost of generation (~Rs. 12). The Ministry of Water and Power has estimated the true cost of delivering a unit of electricity to the end consumer at greater than Rs. 15.60 after taking into account the collection losses and the real losses to the distribution companies. If the system assumes the NEPRA suggested transmission and distribution loss of 16%, the theft alone is estimated to be costing the national exchequer over Rs 140 billion annually.

4. The aforementioned inefficiencies, theft, and high cost of generation are resulting in debilitating levels of subsidies and circular debt. Reducing these losses would lead to significant improvement in the bankability and profitability of the sector, and could be used to improve the efficiency of the power system / network as a whole.

The limited and crumbling transmission system of Pakistan has created serious issues of access to electricity, particularly in Balochistan and other far flung rural areas of the country.
4. GOALS

To achieve the long-term vision of the power sector and overcome its challenges, the Government of Pakistan has set the following nine goals:

i. Build a power generation capacity that can meet Pakistan’s energy needs in a sustainable manner.

ii. Create a culture of energy conservation and responsibility

iii. Ensure the generation of inexpensive and affordable electricity for domestic, commercial, and industrial use by using indigenous resources such as coal (Thar coal) and hydel.

iv. Minimize pilferage and adulteration in fuel supply

v. Promote world class efficiency in power generation

vi. Create a cutting edge transmission network

vii. Minimize inefficiencies in the distribution system

viii. Minimize financial losses across the system

ix. Align the ministries involved in the energy sector and improve the governance of all related federal and provincial departments as well as regulators

A clear strategy has to be articulated for each of the aforementioned goals in order to actualize the power sector’s aspirations.

5. TARGETS

Pakistan has set key targets in terms of the demand-supply gap, affordability, efficiency, financial viability and governance of the system. The extent to which the policy can meet these targets will measure the success of the policy and the nation’s ability to overcome the key problems afflicting the power sector.

Supply Demand Gap: Goals i and ii pertain to this target

- Target: Decrease supply demand gap from 4500 - 5000 MW today to 0 by 2017
Affordability: Goal iii pertains to this target

- **Target:** Decrease cost of generation from 12c / unit today to ~10c / unit by 2017

Efficiency: Goals iv to vii pertain to this target

- **Target:** Decrease transmission and distribution losses from ~23-25% to ~16% by 2017

Financial Viability and Collections: Goal viii pertains to this target

- **Target:** Increase collection from ~85% to 95% by 2017.

Governance: Goal ix pertains to this target

- **Target:** Decrease decision making processing time at the Ministry, related departments and regulators from long to short durations
  - The exact processing times are not currently available; will be established shortly

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6. **POLICY PRINCIPLES**

The process of policy and strategy formulation is informed by the following organizing principles: (i) efficiency, (ii) competition, and (iii) sustainability.

6.1 **EFFICIENCY**

Efficiency is the cornerstone of developing competitiveness. The principle of efficiency will be predicated on three pillars: merit order, transparency / automation, and accountability.
Merit order will be observed all across the system - fuel allocation, dispatch, payments, and power mix. Merit order allocations will obviously come into play once the supply and demand gaps have been minimized.

Transparency will be achieved by providing seamless access to information through a public website

Accountability will be ensured by hiring professionals solely on the basis of competency, signing performance contracts, and exercising zero tolerance towards corruption and poor performance.

The above is illustrated in the following image:

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6.2 **Competition**

Competition creates the edge essential for developing a robust energy cluster. The principle of competition will be built on three pillars: infrastructure development, up front tariff and competitive bidding, and key client management.

Infrastructure will be developed and incentives provided to attract greater private sector investments. Government would like to limit its role to policy making, and unless necessary, service delivery will be promoted through a fiercely competitive and transparent private sector.

In this light, NEPRA will be strengthened to create a world class regulatory authority with sophisticated and efficient capacity to establish tariffs and set the foundation for a competitive bidding process.
The government will assign “key client managers or relationship managers” at the MoWP who will act as a ‘one window operation’ for investors in the power sector and ensure the timely completion of investments and projects.

The above is illustrated in the following image:

6.3 **SUSTAINABILITY**

Sustainability is the underpinning of long term transformation. The principle of sustainability will be grounded on three pillars: low cost energy, fair and level playing field, and demand management.

Altering the fuel mix towards less expensive fuels will lead to low cost energy. Investments required for the low cost fuel mix will necessitate rationalization of the electricity tariff.

Fairness will be ensured by protecting the poor and cross-subsidizing their consumption from the affluent. A level playing field will be created by providing power at comparable prices to all industrial users.

Demand management will be introduced through novel policy, pricing and regulatory instruments.

The above is illustrated in the following image:
7. STRATEGY

Within the framework of the above policy principles, the GoP has designed strategies for each of the goals listed in section 4 to actualize its vision and overcome the power crisis.

7.1 SUPPLY STRATEGY

The supply strategy will meet Goal (i):

*Build a power generation capacity that can meet Pakistan’s energy needs in a sustainable manner.*

The broad contours of the supply strategy are illustrated in the following figure:

- **Incent Investment Through New Econ Model**
  - Target power and gas subsidy directly only at the abject poor
  - Provide more expensive but dedicated electricity to users utilizing captive power and generators
  - Phase out subsidy over period of three years

- **Bring Existing Capacity Online**
  - Retire circular debt immediately and clear GST refunds
  - Set maximum delay limit for payables (RFO 45-60 days / Gas 30-45 days)
  - Provide financing to plants that lie dormant due to lack of funds or disputes

- **Complete Pipeline Projects**
  - Bring pipeline projects online on war footing
  - Prioritize projects that can be brought online in two to three years, particular coal, run-of-the-river and bio-mass projects
  - Assign key project manager from Ministry of Water and Power to each pipeline project with the sole responsibility of ensuring project comes online

**Goal:** Build a power generation capacity that can meet Pakistan’s energy needs in the long-term
Overall, the strategy to achieve the above goal is focused on attracting and directing local and foreign investments toward rapidly expanding the power generation capacity. Investments can only be encouraged if the sector is made attractive and bankable by eliminating all subsidies, except for those that target the abject poor, to prevent build-up of circular debt. The poor (consumers using up to 200 units) will be protected from any price escalation. To the extent possible tariff rationalization will minimize or eliminate subsidy within the industrial, commercial and bulk consumers.

In developing new power generation projects, a preference shall be afforded to up-front or feed-in tariff which shall set the upper ceiling. In addition, competitive bidding may be used to minimize the cost of generation. Previous policy frameworks (such as 2002 power policy) may also continue to be operational. However, the 2013 power policy shall override any other policy in relation to energy issues to the extent of inconsistencies.

In the short run, the government has already brought the existing capacity online by retiring the circular debt. This action has provided financing to plants that were previously dormant due to a lack of feedstock and / or disputes. The retirement of debt has resulted in an additional supply of over 1700 MW. In tandem, an aggressive rehabilitation and expansion program for the GENCOs is underway which would add 1,447 MW within a year: rehabilitation projects at Guddu, Jamshoro, and Muzzafargarh will yield 700 MW while the expansion of Guddu will add 747 MW.

The maximum delay limits for payables set for RFO and gas (listed in the diagram above) should also apply to hydel IPPs and Wapda in order to ascertain that national power generation capacity does not sit idle in the future.

In the medium term, the MoWP will attract new investments and expedite the pipeline projects on a war footing. A number of projects have reached or will reach financial closure within 2013 – these include 50 MW FFC Energy Limited, 56MW Zorlu Jhimpir project, 50 MW Foundation Wind Energy I, 50 MW China Three Gorges, and 50 MW Foundation Wind Energy II. Thus 256MW have already reached financial closure this year, and an additional 100 MW (Sapphire and Metro) will reach financial closure by the end of 2013. The Uch-II power project (404 MW) has reached financial closure already and is expected to come online by December 2013. Grange Power Holdings is also scheduled to reach financial closure shortly and should be online by October 2014.
In addition to the above listed projects that have reached financial closure, LOS’ have been issued for 450MW worth of wind energy projects and an additional 2,276MW of wind projects are currently in the feasibility assessment process. This cumulative 2,726 MW of wind electricity (if deemed feasible) could come online in 2016. At the same time, 341MW of solar energy projects are also currently in the feasibility assessment process and could come online by 2015 if deemed feasible. There is also a push towards Bagasse which could yield 83 additional megawatts of electricity by 2016.

A significant push will also be made towards building medium and long-term hydel capacity in the country. Six projects totalling 388MW of hydel power are expected to be completed by February 2015. The smaller Patrind and Gulpur hydropower projects are expected to be completed by December 2017 and will add 247MW to the grid. An additional 969MW is anticipated from the Neelum-Jhelum HPP project by November 2016. A number of hydel projects are expected to come online in 2017 including the fourth and fifth Tarbela expansions which have the potential to add 1,910 MW (1,410 MW in fourth expansion, 500 MW in fifth expansion).

The government is also poised to announce a coal corridor with a capacity to generate 6000 – 7000 MW in the near future.

In the long run, large infrastructure programs including the Indus Basin Cascade will be aggressively developed. Dasu has a potential of generating 2,160MW, Patan 2,800 MW, and Thakot 2,800 MW. The detailed engineering design for these projects is being carried out and will optimally be constructed using a BOT PPP method.

Other longer-term projects are also under consideration, such as Bunji (7,100 MW potential) and Diamer-Bhasha (4,500 MW potential) whose completion by 2020 could ensure the energy independence and security of Pakistan.

To achieve its medium and long terms goals, the government will develop infrastructure and provide incentives to attract greater private sector investments. The government will set the foundations of energy cities and corridors, and sponsor public-private partnership (PPP) for coal and run of river projects. The government will assign “key client managers or relationship managers” at the MoWP who will act as a ‘one window operation’ for investors in the power sector and ensure the timely completion of investments and projects.

The government is actively considering innovative business models including various wholesale business models supported by wheeling charges. These innovative business models once
concluded may allow the generation companies to sell electricity to NTDC, DISCOs and the private sector alike. Successful implementation of these models will encourage rapid investments in power generation, bring power generation closer to the load centres, and result in a reduction in electricity prices.

Encouraging the private sector to participate in the utility market necessitates a world-class regulatory function. NEPRA will be strengthened in this regard, and a world-class regulatory authority will control the Tariff and Competitive Bidding process. Up-front tariffs will be set for low cost fuels and competitive bidding will be used to push the costs further downwards.

### 7.2 Demand Strategy

The demand management strategy will meet Goal (ii):

*Create a culture of conservation and responsibility.*

The broad contours of the demand management strategy are illustrated in the following figure:

<table>
<thead>
<tr>
<th>Demand Management Strategy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Goal:</strong> Create a culture of energy conservation and responsibility</td>
</tr>
</tbody>
</table>

- **Strategy**
  - **Improve Technology Standards**
    - Set energy conservation and product labeling standards
    - Ban imports of non-efficient consumer electronics in Pakistan
    - Provide Pakistani manufacturers three year time limit to bring products up to par with efficiency
  - **Time of Use tariffs**
    - Impose specific timings and restrictions for:
      - Shopping, and other recreational activities, billboard lighting, street lighting, commercial lighting, neon lighting, air conditioning
    - Introduce ‘Time of Use’ meters that charges different rates for peak and off-peak electricity usage
  - **Pricing Signal**
    - Provide more expensive but dedicated electricity to heavy users utilizing captive power plants and generators (commercial and residential)
    - Phase out subsidy over period of three years
    - Pass true economic cost of electricity generation to consumers over time
      - Maintain subsidy for abject poor

The GoP will pass energy conservation legislation aimed at three key areas: a) technology / product labelling standards, b) power time of use, and c) improving the energy efficiency of the existing and new infrastructure.

The strategy will set energy conservation and product labelling standards which would ban the import of inefficient electronics into the country. The local industry will be granted a three-year exemption period to bring its product production to the required levels of power efficiency. Green energy building codes will be established and introduced across the Country.
Energy services companies may also be encouraged in the private sector to audit and improve the energy efficiency of the existing industrial, commercial and residential footprint and create a culture of conservation and productivity.

The strategy may also impose timing restrictions for evening commercial activities and introduce ‘time of use’ metering to discourage utilization during the peak hours by charging different rates for on- and off-peak timings. Solar and alternative power solutions will be encouraged for end users, street lighting, electronic billboards, neon lighting, shop front signage, etc. In addition, the price signal articulated through reducing and targeting subsidy (mentioned in the above section) will naturally optimize demand and utilization.

A conservation program based upon energy saver lighting is already underway with a potential of saving 1000 MW if all 50 million consumers were to be converted to florescent bulbs. In addition, technology solutions such conical bafflers for water heaters will be introduced.

### 7.3 Affordable Power Strategy

The affordable power strategy will meet Goal (iii):

*Ensure the generation of inexpensive and affordable electricity for domestic, commercial & industrial use.*

The broad contours of the affordable power strategy are illustrated in the following figure:

<table>
<thead>
<tr>
<th>Affordable Power Strategy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Goal:</strong> Ensure the generation of inexpensive and affordable electricity for domestic, commercial and industrial use</td>
</tr>
<tr>
<td><strong>Strategy</strong></td>
</tr>
<tr>
<td><strong>Move Towards Cheaper Fuels</strong></td>
</tr>
<tr>
<td>• Identify expensive RFO and HSD plants and convert them to gas or coal</td>
</tr>
<tr>
<td>• Shift tariff incentives towards low cost energy sources (hydel – run of the river, gas, coal, nuclear, biomass, etc.)</td>
</tr>
<tr>
<td>• Proliferate mining across the country and expedite coal projects at Thar blocks</td>
</tr>
<tr>
<td><strong>Gas Conservation for Power</strong></td>
</tr>
<tr>
<td>• Increase price for gas consumption for all users except for poor residential users</td>
</tr>
<tr>
<td>• Reduce utilization of gas in CNG and UFG in particular</td>
</tr>
<tr>
<td>- 10% gas diversion can generate 2,000 MW</td>
</tr>
<tr>
<td>• Divert gas to the power sector and ensure firm supply to the power plants</td>
</tr>
</tbody>
</table>

The strategy focuses on shifting Pakistan’s energy mix toward low cost sources such as hydel, gas, coal, nuclear and biomass. Local and foreign investments will be aggressively sought for
small and medium size run of river hydel projects. Selected hydel projects under development will be positioned for privatization. Multilateral agencies will be invited to partner in large infrastructural hydel projects. LNG terminals will be developed on war footing to rapidly increase the gas supply for the power and industrial sectors. In addition, gas will be preferentially directed to the power sector by eliminating UFG. Nuclear power will be developed in close collaboration with friendly countries such as China. Development of coastal energy corridors based upon imported coal (mixed later with local coal), rapid proliferation of coal mining all across the country – especially at Thar, and conversion of expensive RFO based plants to coal are the central tenets of coal policy. The proposed strategy will change the energy mix of Pakistan in favour of low cost sources and significantly reduce the burden of energy to the end consumer.

7.4 Supply-Chain Strategy

The supply-chain strategy will meet Goal (iv):

Minimize pilferage and adulteration in fuel supply.

Once the relief from load shedding is forthcoming because of a decreased supply and demand gap, this strategy will focus on redirecting the supply of fuel from inefficient GENCOs to the most efficient IPPs. This reallocation alone has the potential of saving Rs 3 billion per month and generation an additional 500MW of electricity. At the same time, the MoWP will sign performance contracts with GENCOs, PSO, and fuel transporters and hold them accountable for the quality and theft of oil. Fuel procurement contracts may be made open sourced to eliminate the power of a single supplier. Leakage will be plugged by building fuel pipelines where possible and open decanting. More specifically a 22 KM pipeline will be constructed to plug the supply chain leakage in Muzzafargarh. In the event that fuel is found to be missing or adulterated, the full economic value of the fuel will be appropriated to the end receiver.
The broad contours of the supply chain strategy are illustrated below:

**Supply Chain Strategy**

**Goal:** Minimize pilferage and adulteration in the fuel supply to improve productivity

**Strategy**

- Reduce allocation to GENCOs until they are at higher efficiency levels
- Move fuel allocation from GENCOs to IPPs
- Moving 4000 mtoe from GENCOs to IPPs will save Rs 75 billion / year
  - Rs 13 billion / month spent on GENCOs produces 650MW
  - 10 billion / month at IPPs produces 1,150 MW
- Sign performance contracts with GENCOs, PSO, and fuel transporters
- Open fuel procurement contracts through tendering to eliminate role of single supplier
- Eliminate trucking and open decanting by building pipelines (for Muzaffargarh TPS)
- Measure the quantity and quality of fuel moving from the port to GENCO
- Appropriate full economic, value added cost of quality or quantity loss to the end receiver

7.5 **GENERATION STRATEGY**

The generation strategy will meet Goal (v):

*Promote world class efficiency in power generation.*

The broad contours of the strategy are illustrated below:

**Generation Strategy**

**Goal:** Promote world class efficiency in power generation

**Strategy**

- Establish plant efficiency through heat rate testing
- Prioritize and allocate fuel based upon the efficiency levels
- Make allocations and efficiency levels transparent online
- Monitor the efficiency of these plants on a continuous basis
- Either privatize; or lease GENCOs to private sector on the basis of O&M contracts
- Pilot two GENCOS immediately
- Prepare the remaining GENCOS for subsequent privatization through corporatization
The strategy focuses on establishing plant efficiency through external heat rate testing, building a merit order accordingly, and allocating fuel to the more meritorious plants. Merit order will privilege fuel allocation on the basis of efficiency and optimize dispatch and payments. Transparency will be achieved by providing greater and easier access to information through a public website. Allocations will be made public online to increase the transparency. The strategy calls for the privatization or O&M based leasing of GENCOS.

7.6 Transmission Strategy

The transmission strategy will meet Goal (vi):

Create a cutting-edge transmission network.

The broad contours of the strategy are illustrated below:

The strategy is based on installation of upgraded SCADA software to optimize transmission and monitor its losses. Dispatch will be based on economic order and internal/audit controls will be established on dispatch and payment.
The transmission strategy requires the redesigning of the national grid in a manner that minimizes line losses. Plants will be built closer to load centers; high voltage transmission lines will be expanded; and the 220kv rings around cities will be strengthened.

Private sector will be provided incentives to build and strengthen the transmission infrastructure. Innovative business and regulatory models will be deployed to weaken the monopolies, increase efficiencies, and decrease costs through competition. Wheeling charges and wholesale markets may be introduced to introduce multiple buyers and sellers in the market place.

Regional transmission networks may also be encouraged to promote power trade and optimize deficits and surpluses.

7.7 **Distribution Strategy**

The distribution strategy will meet Goal (vii):

*Minimize inefficiencies in the distribution system.*

The broad contours of the strategy are illustrated below:

<table>
<thead>
<tr>
<th>Distribution Strategy</th>
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<tbody>
<tr>
<td><strong>Goal:</strong> Minimize operational and financial inefficiencies in the distribution system</td>
</tr>
<tr>
<td><strong>Strategy</strong></td>
</tr>
</tbody>
</table>

- **Performance Contracts (Short Term)**
  - Sign performance contracts with the key stakeholders / heads of the distribution companies (DISCOs) to ensure their accountability with respects to effective distribution
  - Ensure that performance contracts cover:
    - Reduction in distribution losses (technical losses as well as theft related losses)
    - Full collections of distribution companies’ receivables from consumers using ATC index

- **Smart Metering and Feeder level accounting (Short Term)**
  - USAID has funded Smart Meters at all feeders in Pakistan. Project is 65% complete and will finish in 60 days.
  - Use Smart Meters to Develop an online system of monitoring electricity distribution from CDPs, feeders, transformers and consumer end meters
  - Manage profit and loss accounts at the feeder level
  - Hold XEN accountable for P&L and reward or remove

- **Privatization of DISCOs**
  - Privatize a limited number of DISCOs as pilot and document key learnings
  - Devolve the P&L of the remaining DISCOs to the feeder level and hold XEn accountable to improve performance
  - Privatize all DISCOs over a period of time

In the short-term, performance contracts will be signed with the heads of DISCOs (distribution companies) and their respective boards focused on reducing distribution losses due to technical reasons, theft, and lack of recovery / collections. Board independence and appointment of competent board members is the corner stone of improving the performance of DISCOs.
Smart meters will be installed at the feeder and CDP level, profit and loss accounts will to be managed at the feeder level, and the accountability will be appropriated to the Executive Engineer. A regime of reward and punishment will be used to improve efficiency and decrease theft. A Theft Act will be passed that would harshly punish defaulters and other electricity thieves to eliminate theft at the consumer level.

In the medium term, the efficiency will be improved by privatizing a selected number of DISCOs. The remaining DISCOs will be privatized over a period of time.

### 7.8 Financial Efficiency Strategy

The financial efficiency strategy will meet Goal (viii):

*Minimize financial losses across the system*

The broad contours of the strategy are illustrated below:

<table>
<thead>
<tr>
<th>Financial Efficiency Strategy</th>
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<tbody>
<tr>
<td><strong>Goal:</strong> Minimize financial losses across the system</td>
</tr>
<tr>
<td><strong>Strategy</strong></td>
</tr>
<tr>
<td><strong>Collect Receivables</strong></td>
</tr>
<tr>
<td>- Automatically adjust already agreed upon amounts owed by provinces and government dept to power sector from the NFC Award and department budgets</td>
</tr>
<tr>
<td>- Appoint independent, reliable ‘Adjuster’ to settle payment disputes with provinces and govt depts within a period of three to six months</td>
</tr>
<tr>
<td>- Agree upon transparent procedure for future billing and collections</td>
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<tr>
<td>- Collect GST refunds from FBR and devise a mechanism to avoid future build-ups</td>
</tr>
<tr>
<td><strong>Punish Defaulters and Eliminate Theft</strong></td>
</tr>
<tr>
<td>- Eliminate transmission and distribution theft</td>
</tr>
<tr>
<td>- Focus load-shedding in areas where collections are low</td>
</tr>
<tr>
<td>- Pass legislation that allows for defaulters connections to be severed</td>
</tr>
<tr>
<td>- Defaulters connections are severed after 60 days of non-payment</td>
</tr>
<tr>
<td>- Defaulters will only be reconnected with pre-paid card based meters</td>
</tr>
</tbody>
</table>

GST refunds will be collected from the FBR and a mechanism will be built to avoid future build-ups.

The financial efficiency strategy is geared towards punishing private defaulters and proposes severing the electric connections of defaulters after 60 days of non-payment and only reconnecting them to the grid with pre-paid meters. External collection agencies may also be sourced to improve cash flows. At the same time, load-shedding may be focused on areas of high theft and low collections as opposed to the current structure of indiscriminate load-shedding.
The strategy also covers the independent audit of all financial transactions within the power sector. An independent firm will be used to audit these transactions and ensure the greatest degree of financial propriety within the power sector.

7.9 **Governance Strategy**

The governance strategy will meet Goal (ix):

*Align the ministries involved in the energy sector and improve governance.*

The governance strategy calls for the notification of an Official Coordination Committee comprising the Ministry of Water & Power, the Ministry of Petroleum, the Ministry of Finance, the Ministry of Planning and Development, a member from each province, and a representative from AJK and GB each. This council will ensure information integration between all these ministries and will assist in policy formulation and decision making related to energy. The CCI will provide monitoring and oversight to the implementation of the National Power Policy.

The strategy requires the reformation of structural and regulatory aspects of NEPRA and OGRA to improve efficiencies. New business models including power exchanges and wheeling charges will be explored. NEPRA’s reform will include a change in the establishment period for the base tariff from 8-10 months to 90 days; the aim of this reform will be to minimize the potential for circular debt accumulation.

Finally, the Ministry of Water and Power will be restructured to strengthen its functional expertise. Directorates will be created for key functions (i.e. generation, transmission, and distribution) and key organizations such as CPPA, PPIB, AEDB, and NTDC will be reformed.

The broad contours of the strategy are illustrated below:

<table>
<thead>
<tr>
<th>Governance Strategy</th>
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<tbody>
<tr>
<td><strong>Goal:</strong> Align the ministries involved in the energy sector and improve governance</td>
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<table>
<thead>
<tr>
<th>Strategy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reform and Coordinate Planning</td>
</tr>
<tr>
<td>- Ensure information integration between all Ministries</td>
</tr>
<tr>
<td>- Reform the structural and regulatory aspects of NEPRA and OGRA</td>
</tr>
<tr>
<td>- Restructure Ministry of Water and Power to strengthen functional expertise</td>
</tr>
<tr>
<td>- Create directorates for each function (Generation, Transmission, Distribution)</td>
</tr>
<tr>
<td>- Ensure power sector reform (PEPCO, CPPA, NTDC)</td>
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</tbody>
</table>
8. PRIORITIZATION

The strategy has been prioritized to maximize the impact of the various strategic initiatives. In the short term we will bring existing capacity online, stop thefts of all form, rationalize the tariff, sign performance contracts, and ensure transparency. In the medium term we will bring low-cost pipeline projects online, and jump start coal and hydro PPP projects. Finally, in the long term we will finish large infrastructure hydel projects and retire high cost energy contracts to ensure that Pakistan moves towards cheap electricity generation.

9. IMPACT

The successful implementation of this policy will lead to enormous improvement within the power sector. By 2017, the supply-demand gap could be eradicated completely; and by the end of the five-year term of the current government the country will have a power surplus which can then be regionally traded. In essence, by the end of the decade Pakistan could be transformed from an energy strapped, importer of power to a regional exporter of power. The cost of power generation will be reduced to an affordable amount, and the efficiency improvements in transmission and distribution will decrease the burden of power to the end consumer. In summary, prosperity and social development will become a reality in a Roshan Pakistan.