

NeXGeN Energy Management Solutions

Data driven approach for focused CAPEX and OPEX impacting decisions at cellular base stations



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Introduction

Power & Fuel (P&F) expense constitute majority of operating expense, and Diesel alone constitutes ~40% of overall Power & Fuel (P&F) expense!

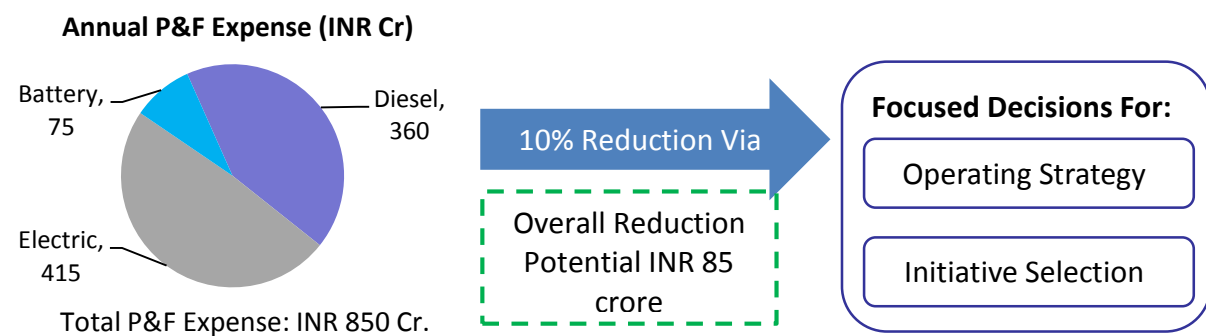
As part of the continuous efforts by the industry to bring down these costs, several initiatives are being tried. However performance of these initiatives is heavily dependent on site characteristics (tenancy, weather, asset-health, grid availability etc.), technology evolution and fuel costs. Implementation of identified initiatives is typically done at a group-level and given the diversity in site characteristics, the actual benefits reduce.

A site-specific decision making can significantly reduce the Operational Expense (OPEX).

Given the large (x 10K sites) and individual site characteristics, there is a need of a data analytics driven approach for site-specific decision making.

We specialize in providing focused decisions that bring benefit at every site, while operators / IP retain the flexibility in introducing new initiatives.

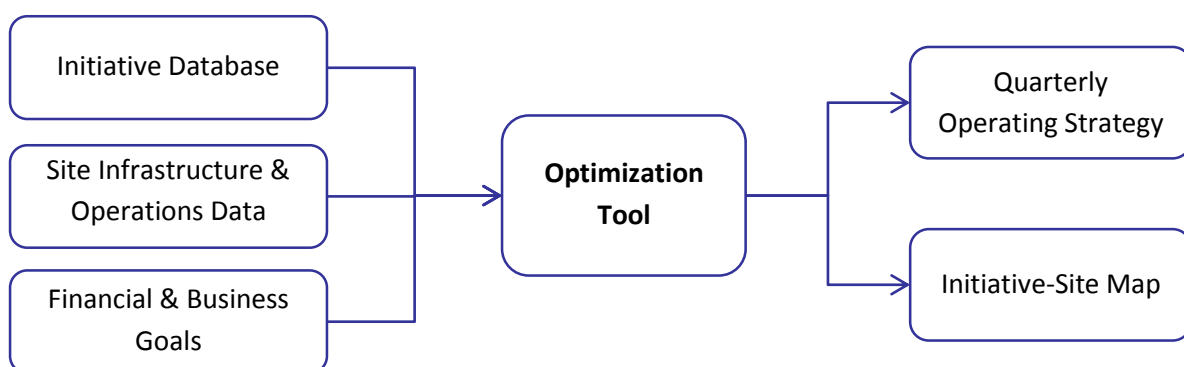
Sample Case (20K sites)



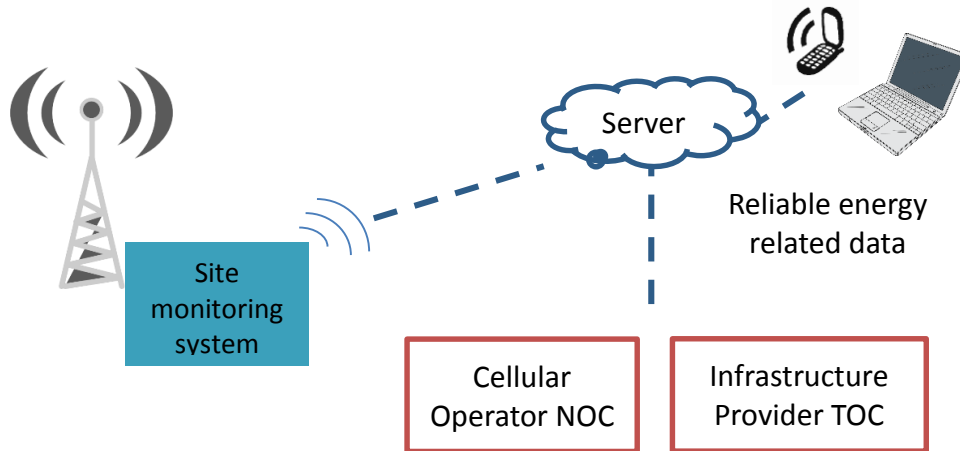
Overview of typical P&F expenses and estimated Savings through our approach

Optimization Tool

With our solution, SPs / IPs can strengthen the planning process and take informed decisions that benefit every individual site. We have developed a data analytics based recommendation engine for reducing site OPEX and optimizing CAPEX deployment towards OPEX reduction initiatives.



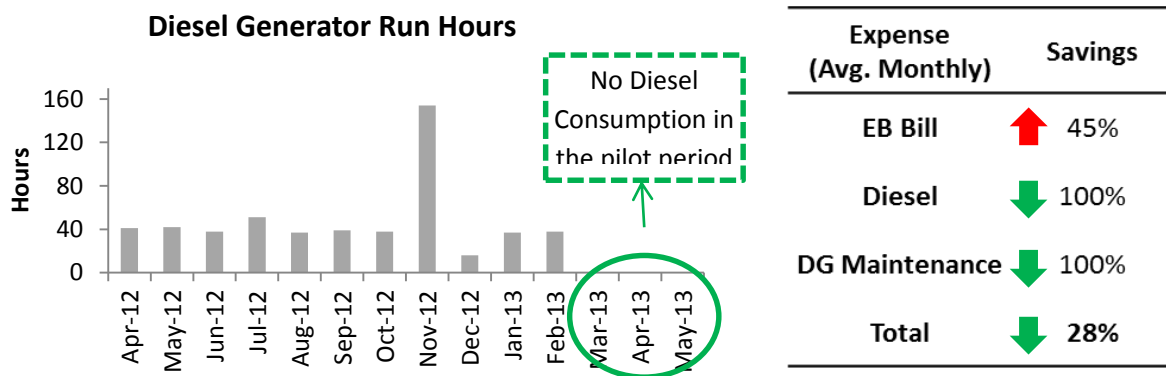
Site Monitoring System



Based on our revolutionary technology for tamper-proof data collection, this is the most advanced BTS site monitoring solution ever used by the industry

Field Validated Solution (Joint pilot with a leading Infrastructure Provider)

Our solutions have been field tested in some of the most challenging operating environments. The results have been very encouraging, typical savings of about 15-30% on energy costs. Sample results of one of the field trials:



Benefits

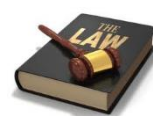
In addition to the ability to monitor individual BTS sites and recommend most optimum solution, our solution helps reduce time to evaluate new initiatives and helps SPs / IPs realize the returns much faster. Most importantly, the process ensures that the best possible decisions are taken consistently.



Focused decisions minimize diesel consumption reducing inflation impact



Maximize gain from investments in Data Acquisition System



Meet regulatory requirements by efficient CAPEX deployment towards renewables

Our solutions and technologies are strengthened by our alliances with leading Telecom R&D centers, industry players and government bodies. Our partners provide us access to the latest technology innovations and field view of challenges faced by the telecom industry.



Telecom Centers of Excellence
A Public Private Partnership Initiative

Awards



Green telecom 2014



Recognized among Top 50
innovations in 2013-14



ET Telecom Awards 2014
(Finalist)