



IoT Consulting

Smart Homes for Smart People

Why Data?

Smart Homes for Smart People

**The data we collect and analyze reflects
what we value.**

**When data isn't collected, someone isn't
being counted.**

RENEWABLE ENERGY?



Why Sub-meters?

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Automated Reading & Billing

Ensures automated reading/billing based on actual usage.

Reductions in Energy Usage

Reductions in energy consumption by increasing the awareness of the users.

Renewable Energy

Solar panels!

+ Batteries to use stored energy in peak hours.

Data - Where?

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Data - Why Analysis?

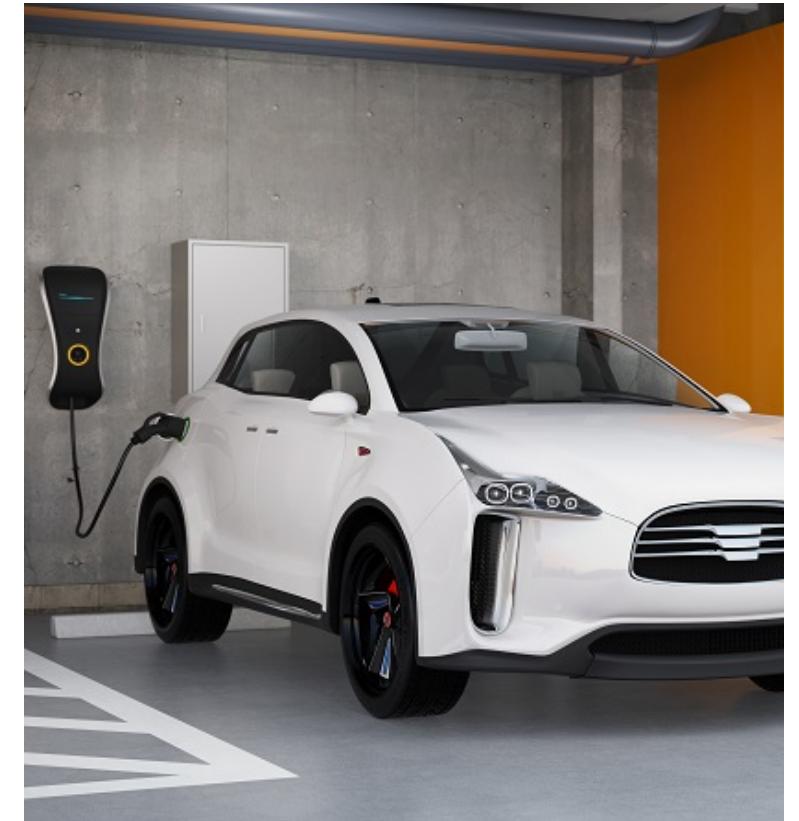
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Collecting Sub-meter data



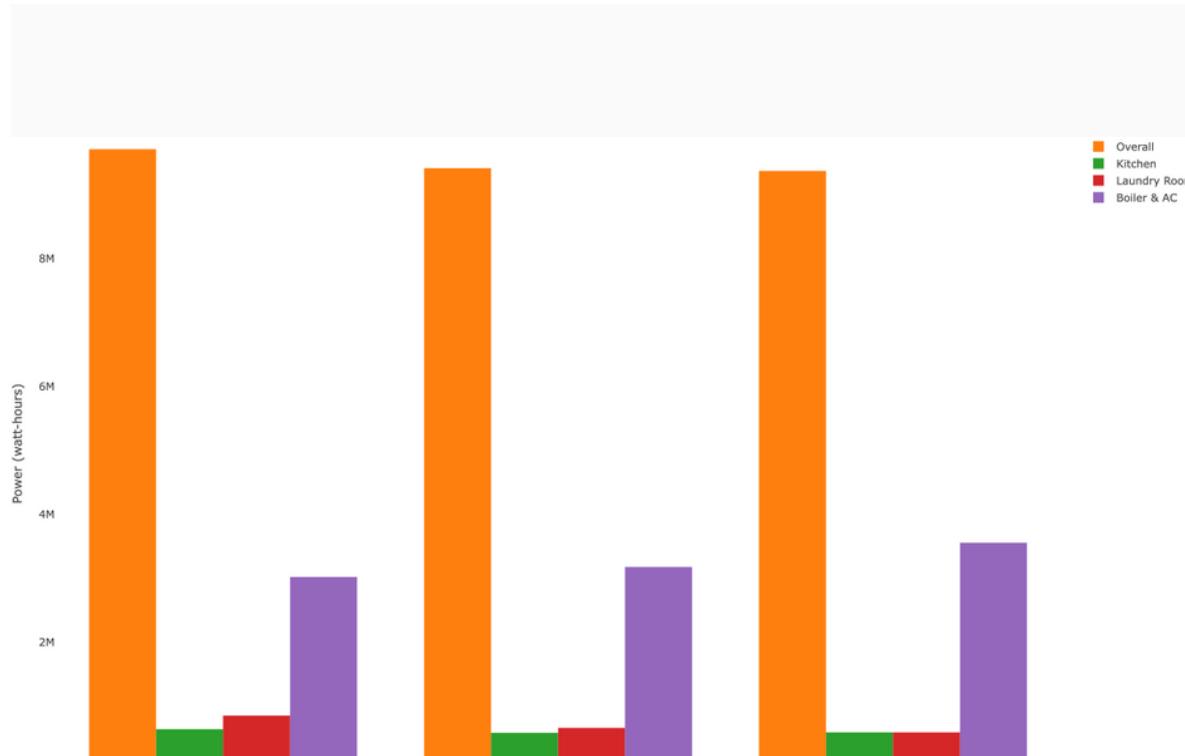
Better understanding of consumption



Energy savings

Is it worth it?

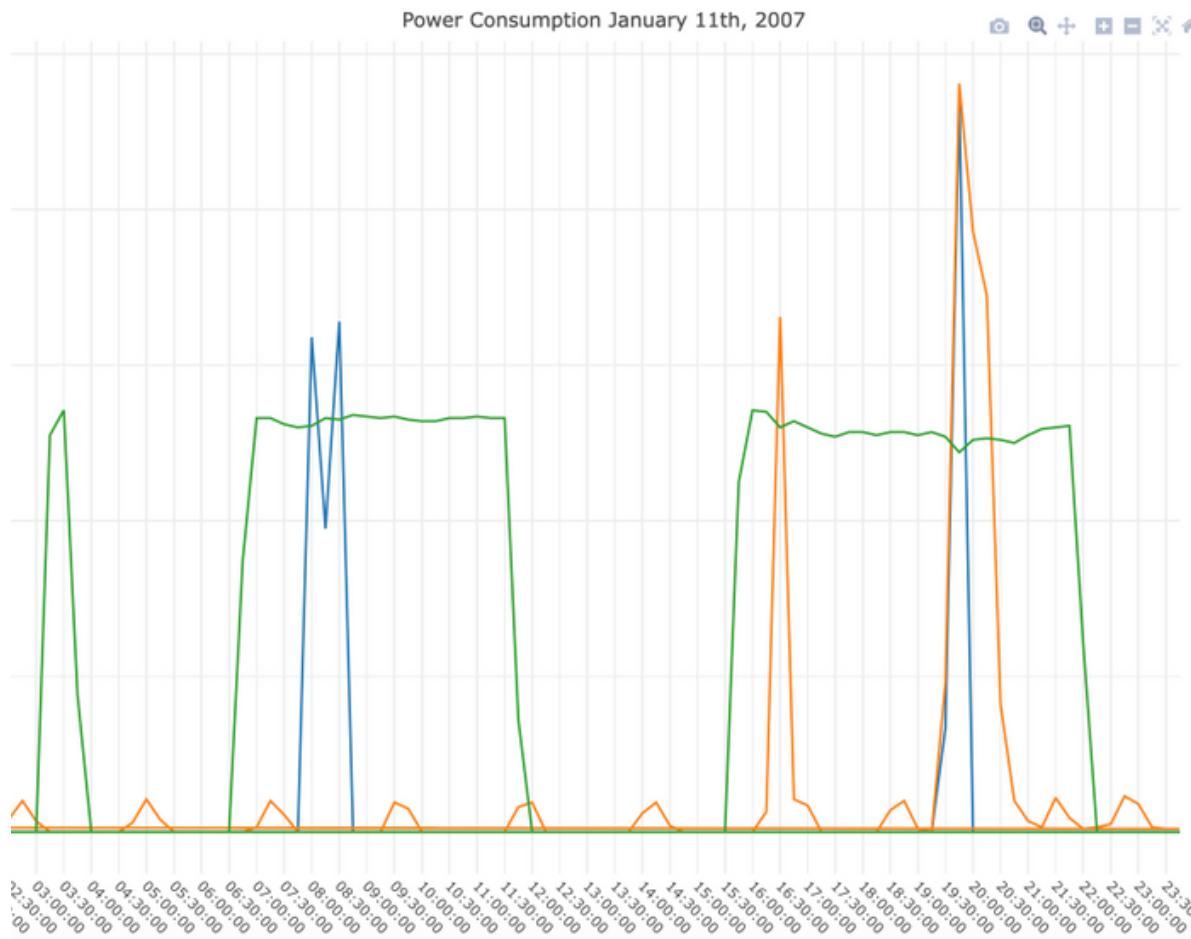
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**3.5% decrease in
overall usage**

Is it worth it?

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**Peak / Off-peak hours
tariff**

Is it worth it?

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**Subsidized energy for
low consumption**

Data Issues -> Data Solutions

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Non-ideal Sub-metering



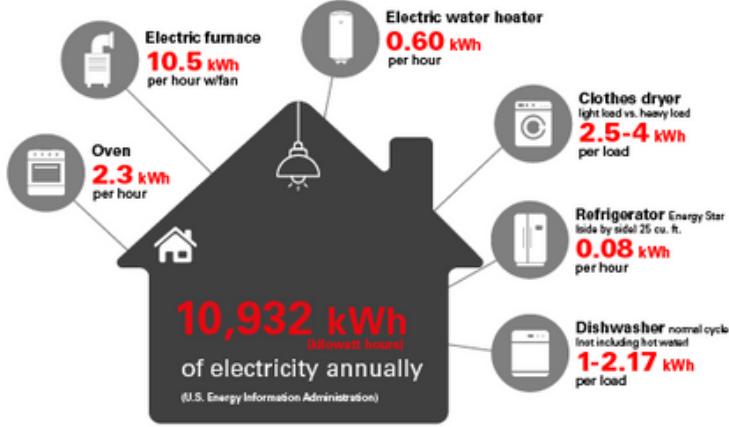
Missing Data



Limited Sample

Data - Recommendations

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Sub-metering by Appliance Type

Regular Data Collection



Data from Several Houses



What Kind of World Do We Want to Leave to Our Children?

Thank You!