



Opentric

# LOGO Design



Graph

+



Electric

=



# Naming



OpenSource

+



Electric

= Openentric



Openentric

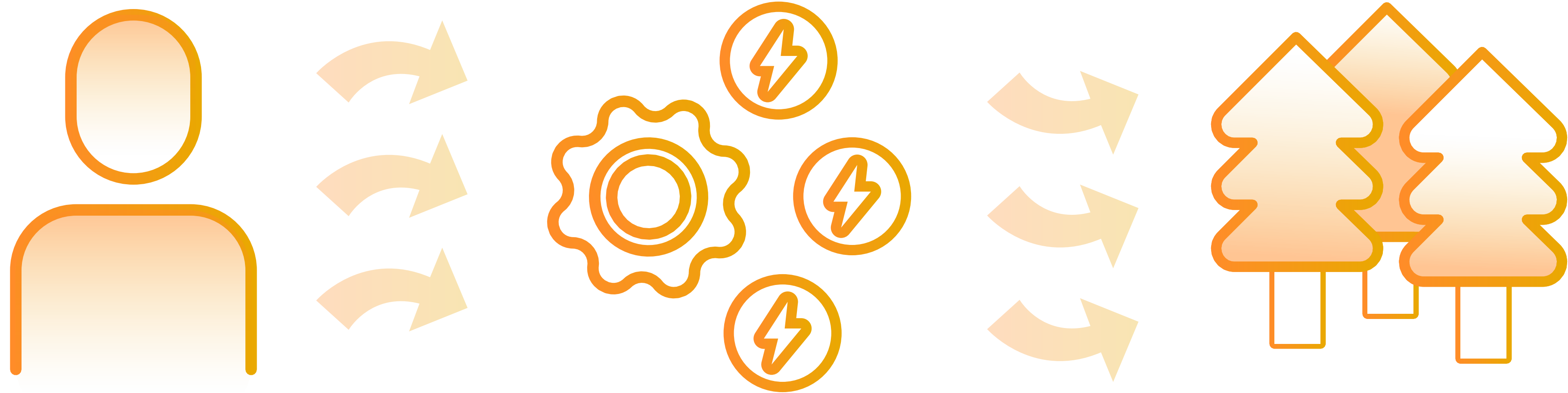
未来城市

CITY OF FUTURE

可持续发展

sustainable  
development

# Smart Grid System : Opentric



Users control  
their amount of electricity.

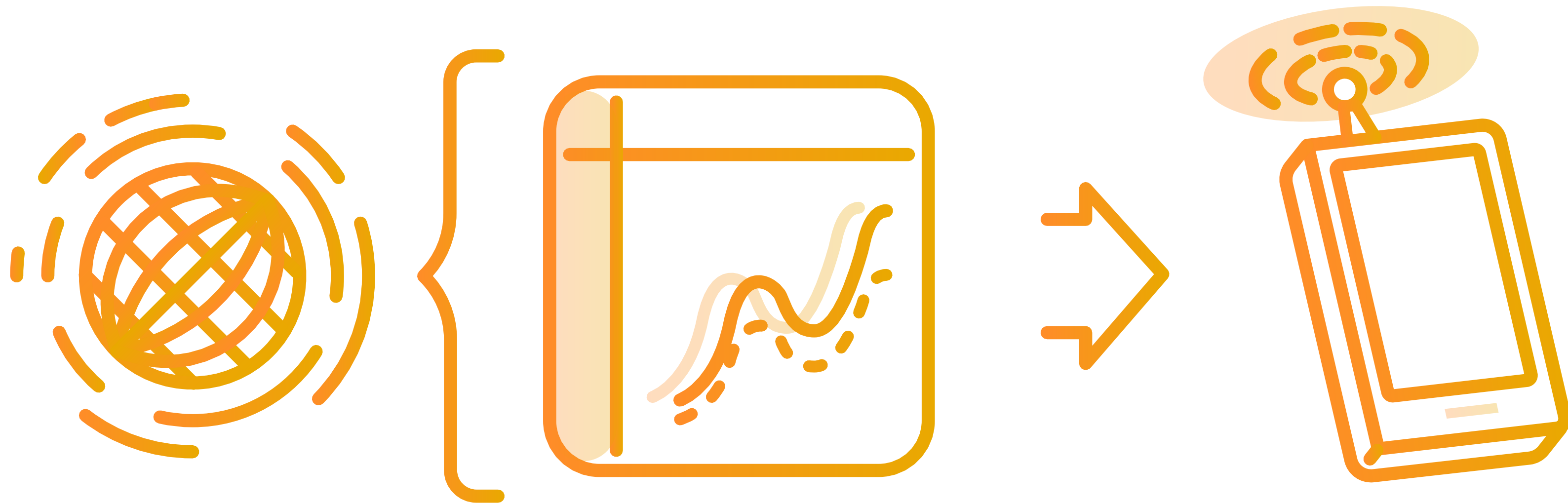
Save energy, money and  
reduce greenhouse gas.  
保存能源、金钱和减少温室气体。

# Tech for manager 管理者



1. Use weather information to predict power usage.
2. Locate the section used by the power to identify other events. Use statistics to analyze data and pass meaningful data to the administrator.

# Tech for Citizen 居民



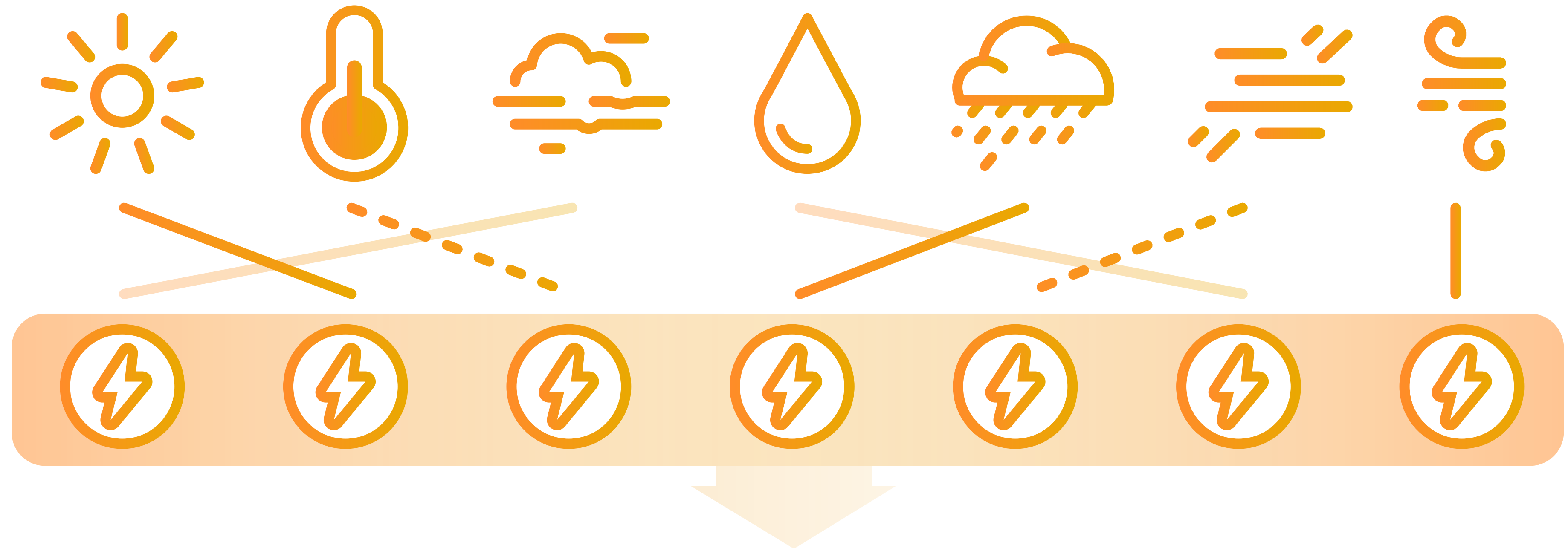
User can check current electric power usage more easily.

Also user predict power usage at future.

So we can control and pass on more resources to posterity.

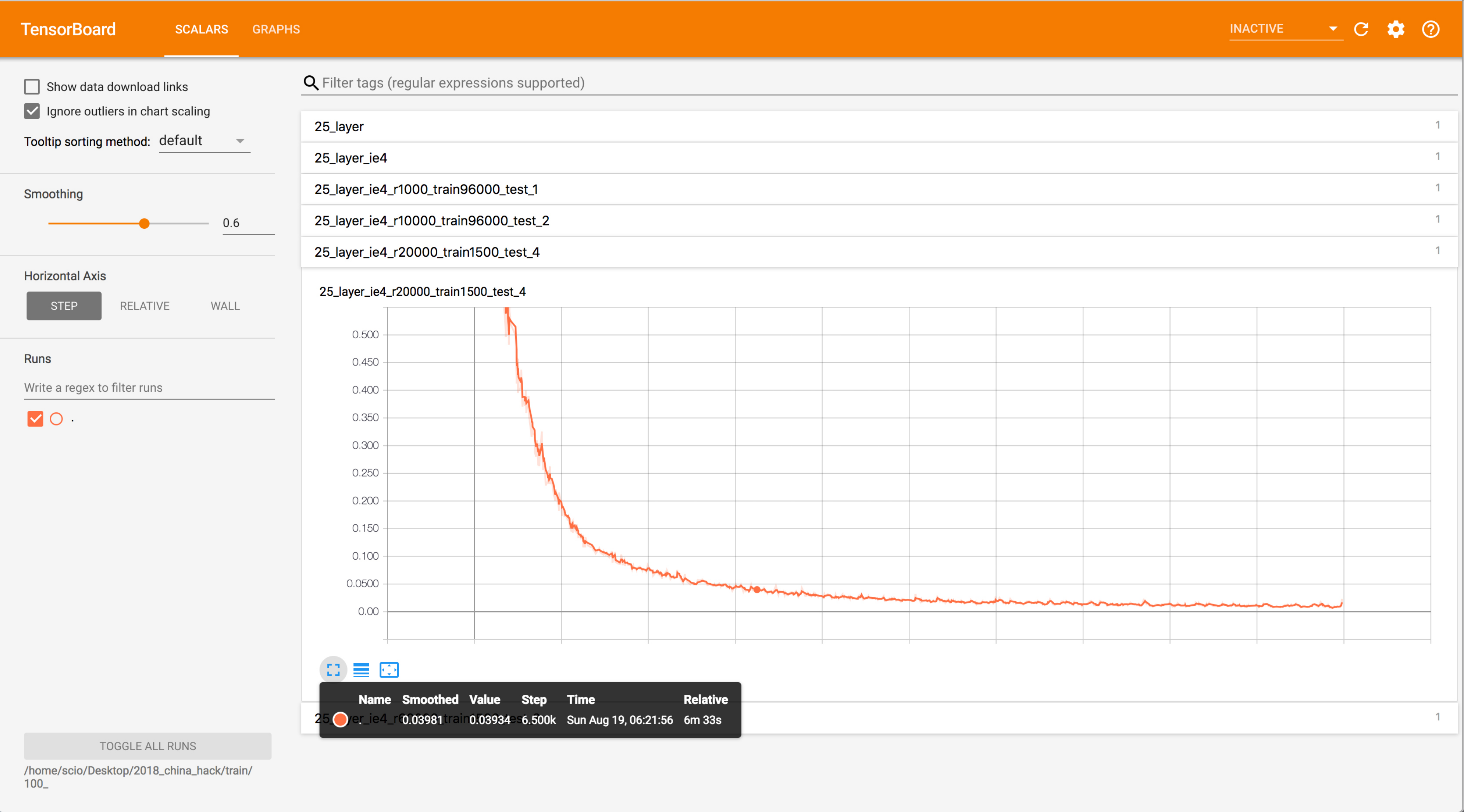


**DATA**

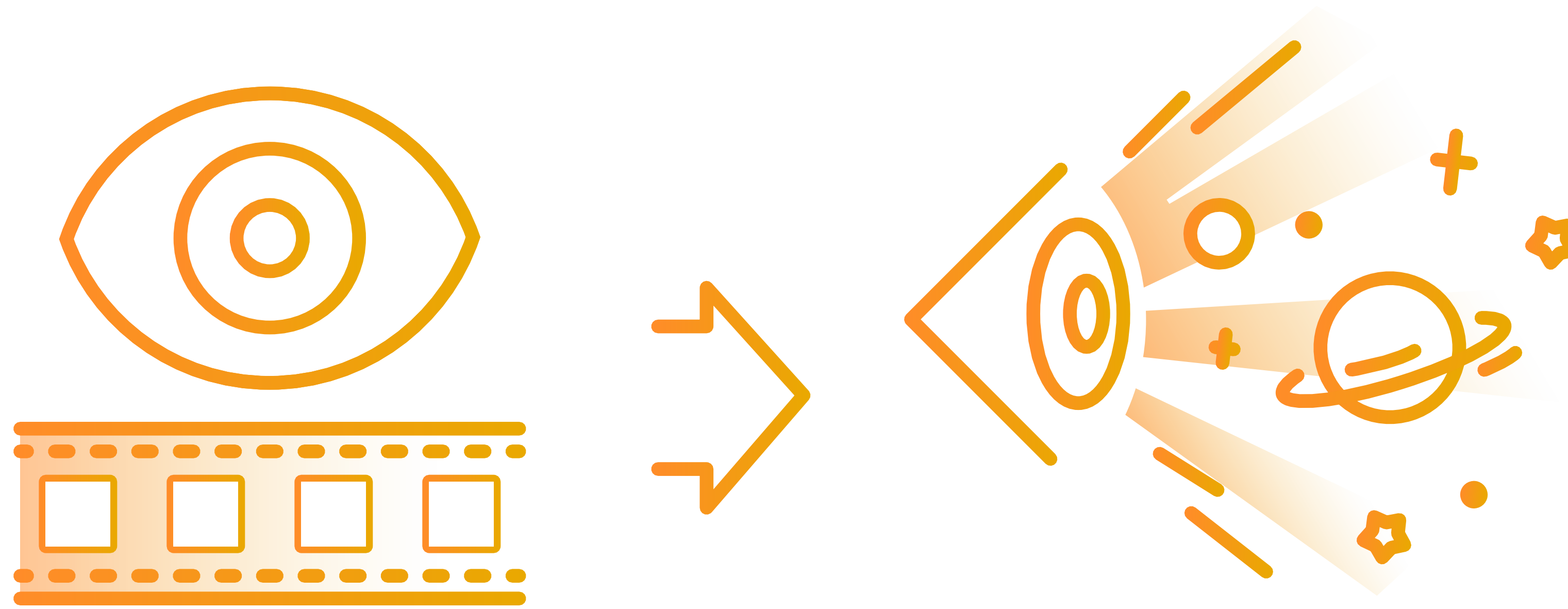


**AI [Seq2Seq]**

Match Weather information with power usage data and learn using Sequence to Sequence (Seq2seq)



<http://scio.ipetime.org:6006/#scalars>



**Looking at past usage data, predicting future.**

**观察、分析历史数据, 预测未来**

# Prepare the future



Dashboard

Electrical Energy

Notice

Weather

Admin



2018.08.19

19:40

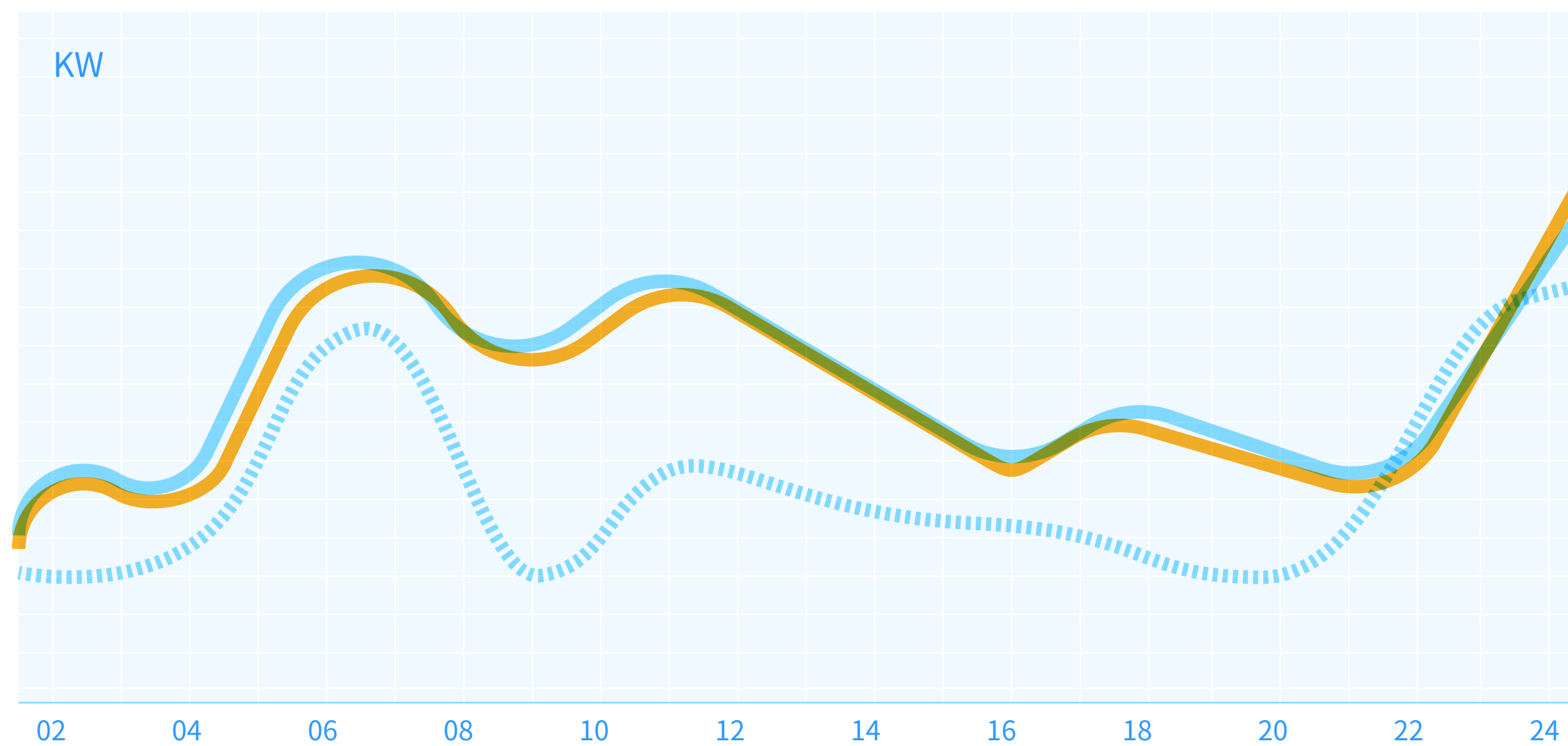
Daily

Weekly

Monthly

Yearly

KW



为未来做准备



### Notice

#### 전력량 증가

서초구 서초동 전력  
사용량 전월 대비 10% 증가

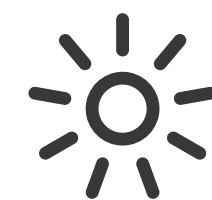
#### 예비전력 부족 의심

서초구 서초동 전력 사용량 전월 대비  
10% 증가

#### 평균 전력량 비교

서초구 서초동의 평균 전력량과  
금월 사용한 금액 비교

### Weather Information



Weather  
**Good**



wind chill  
temperature  
**30°**

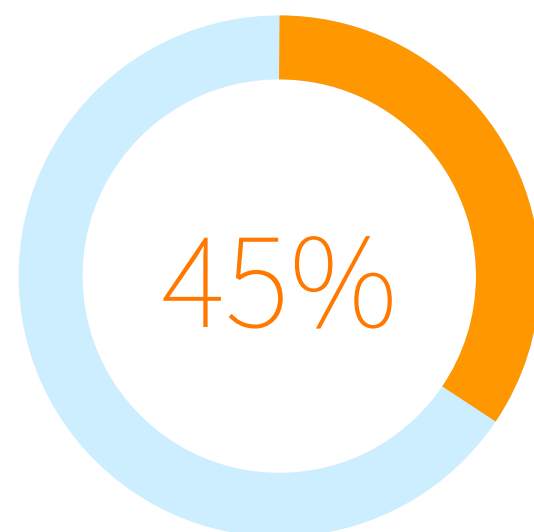


Humidity  
**60%**

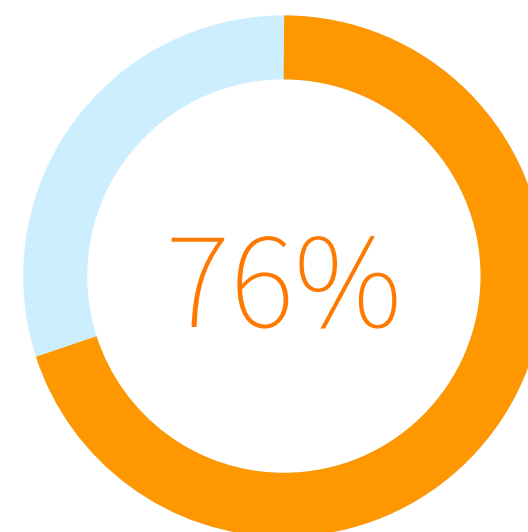


Temperature  
**23° / 27°**

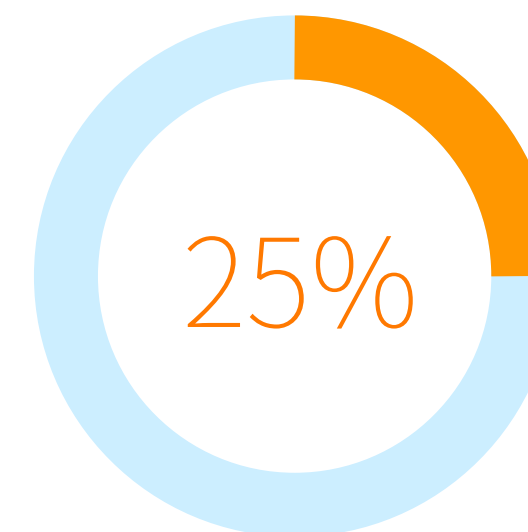
### Electric Power



**82KW**  
average power



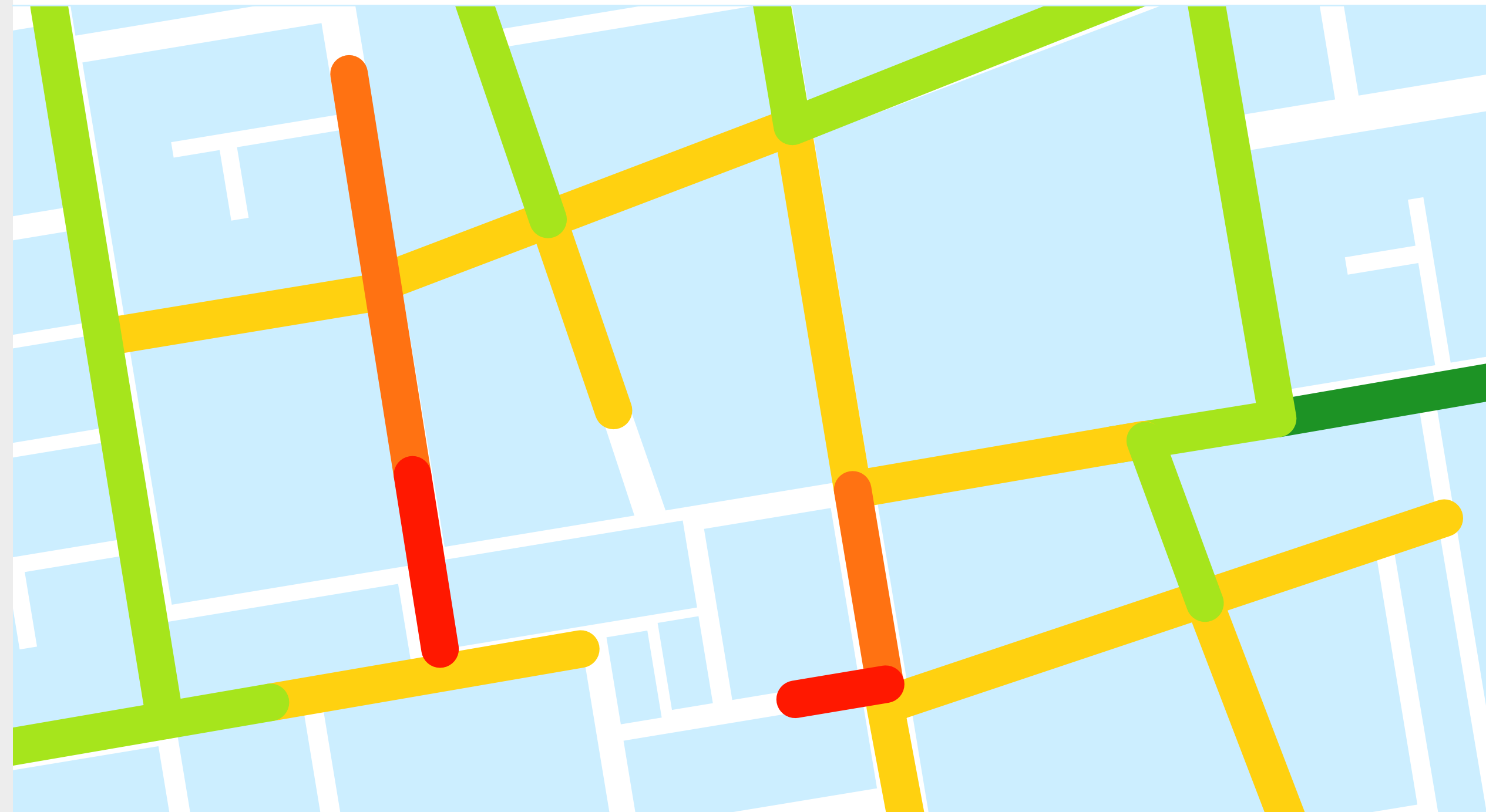
**113KW**  
maximum electric power



**60KW**  
Backup Power



### Leakage current electric



 ~500

 ~400

 ~300

 ~200

 ~100

단위 : 만KW

Language▼

Tech makes good things

**OPENSOURCE**

**Angular JS, Flask,  
Jquery, Semantic UI, D3.js,  
Tensorflow, Zeppelin**



谢谢!

THANK YOU