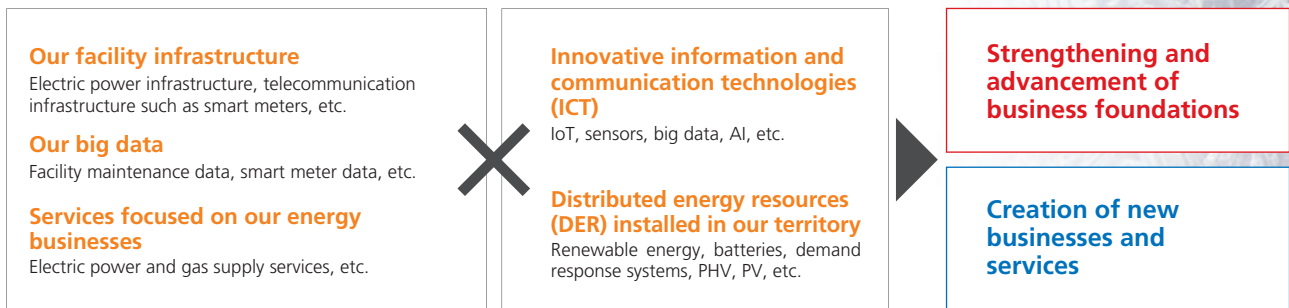


### Creating New Value

## Utilizing Innovative Technologies, Including Information and Communication Technologies

The structures of economies and societies are changing greatly in what is being called the “4th Industrial Revolution” due to the advancement of cutting-edge technologies, starting with information and communication technologies (ICT) such as IoT, big data, and artificial intelligence (AI). In order to actively advance the utilization and development of innovative technologies, we established a new dedicated division at Chubu Electric Power in April 2017. While coordinating with local governments and other businesses, we are seeking to strengthen and advance our business foundation and create new businesses and services.

### Orientation of our strategy



## Strengthening and advancement of business foundations

### 1 Increase competitiveness and reduce environmental impacts simultaneously

- Utilize big data related to the operation and maintenance of power plants to detect signs of trouble and optimize power generation

#### ▶ 1

### 2 Make supply as stable as possible and enhance network services

- Advance the composition, operation and maintenance of facilities
- Disclose power transmission line capacities, strengthen information distribution, and make other enhancements

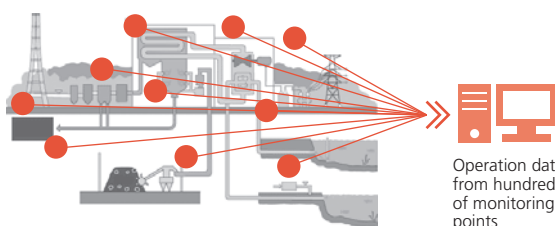
### 3 Strengthen the foundations of services for customers

- Enhance web services (KatEne, BizEne, etc.)
- Raise the levels of solution services by utilizing IoT and AI

### 1 Identify facility issues “super” early

Together with NEC Corporation, Chubu Electric Power is developing systems that enable the realization of improved reliability and increased facility safety for thermal power generation facilities with the goal of completion in fiscal 2017. Moreover, we will also offer the same systems as operation support services to power generation operators in Japan and abroad. By supporting the operation and maintenance of thermal power generation facilities, we will continue increasing the safety of social infrastructure.

#### ■ Benefits of system incorporation



Operation data from hundreds of monitoring points

#### Early discovery of malfunctions

Detect signs of trouble from operation data correlations

#### Raise levels of operation and maintenance

Along with conventional monitoring, comprehensive and effective operation and maintenance

#### Sustain high efficiency and high operation rates

Comprehensively analyze factors that reduce efficiency, for example

# Creation of new businesses and services

## 1 Realize efficient energy use and build a low-carbon society

- Develop valuable services with utilizing analysis technologies for electricity use data acquired with smart meters ▶ 2
- Establish technologies for the efficient operation of air-conditioners based on weather forecasts
- Utilize distributed energy resources such as renewable energy, and test local production of energy supplies for local consumption etc.

## 2 Resolve problems faced by societies and contribute to community revitalization

- Develop new services, including the monitoring of children and the elderly, by installing ICT devices in power poles and other transmission facilities
- Utilize smart meter infrastructure for water supply meter reading etc.

## 2 Realize new services that utilize analyses of electricity consumption amounts using AI

Cooperating with a business that has unique AI technologies, Chubu Electric Power is testing technologies that analyze electricity usage data acquired with smart meters. By acquiring these technologies, we are seeking to provide even more valuable services. Examples include providing advice tailored to customers about energy conservation methods and the use of household appliances, as well as monitoring members of families who live separately.

### Examples of services that utilize smart meters



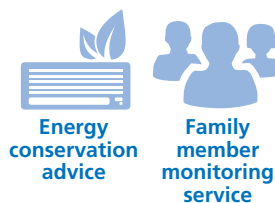
Smart meter

① Smart meter checks electricity use every 30 minutes



AI analysis

② AI analyzes that data to determine the status of household appliance use



③ Offer various services to implement energy conservation methods that are more tailored to customers, as well as family member monitoring services and other new services