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Taipei
An Asian digital city pioneer

City data report 2021

OVERVIEW

Taipei is building on 20 years of urban ICT development with innovative digital applications to support a range of business sectors and citizen needs.
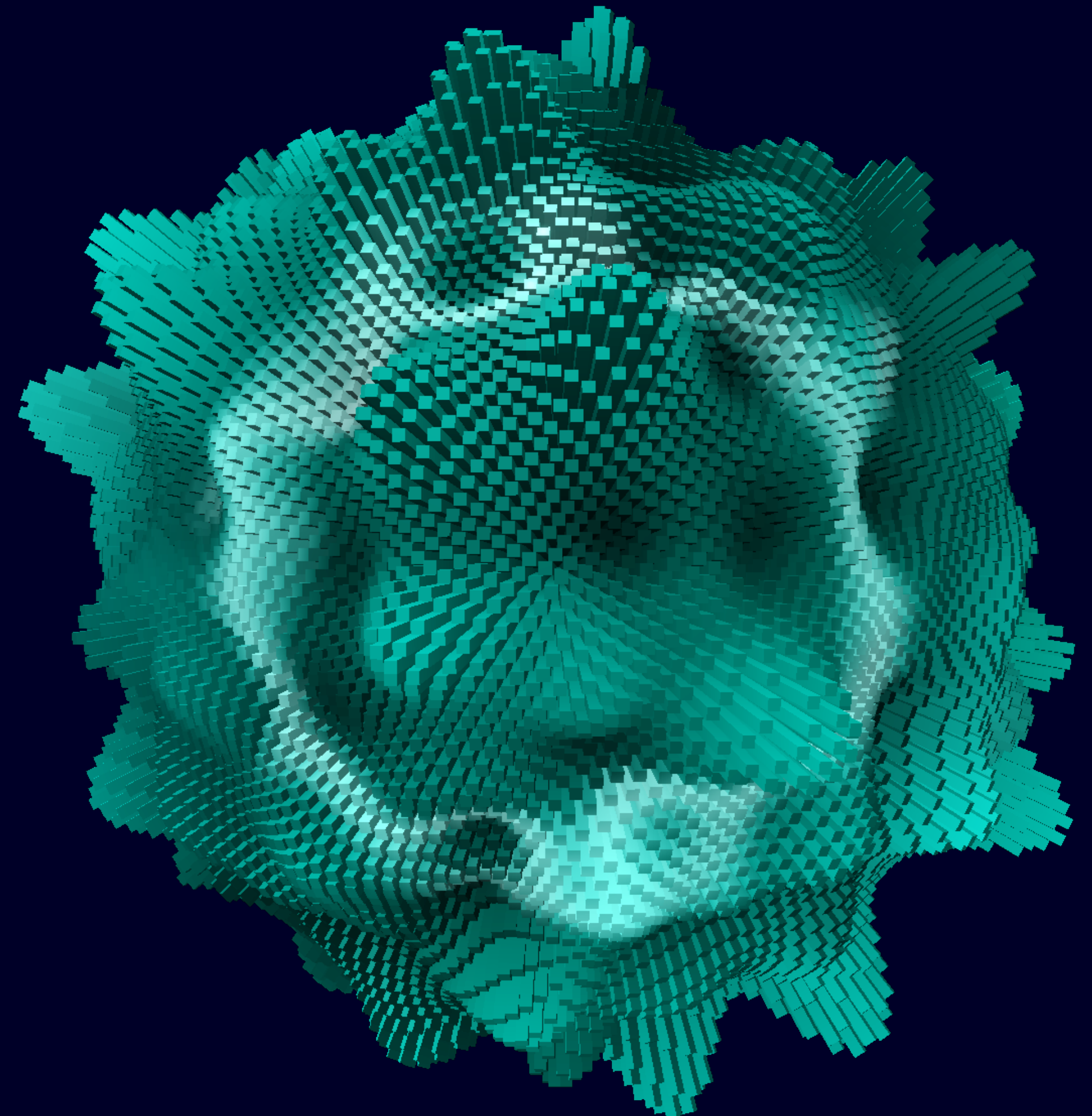
DIGITALIZATION READINESS

6/10

This future-facing city scores highly across all Digitalization Readiness indicators, thanks to early initiatives to promote internet usage at the turn of the century.

DIGITALIZATION POTENTIAL

2/10

Taipei's Digitalization Potential is low because the infrastructure is already highly developed, leaving few areas that can be significantly improved further.
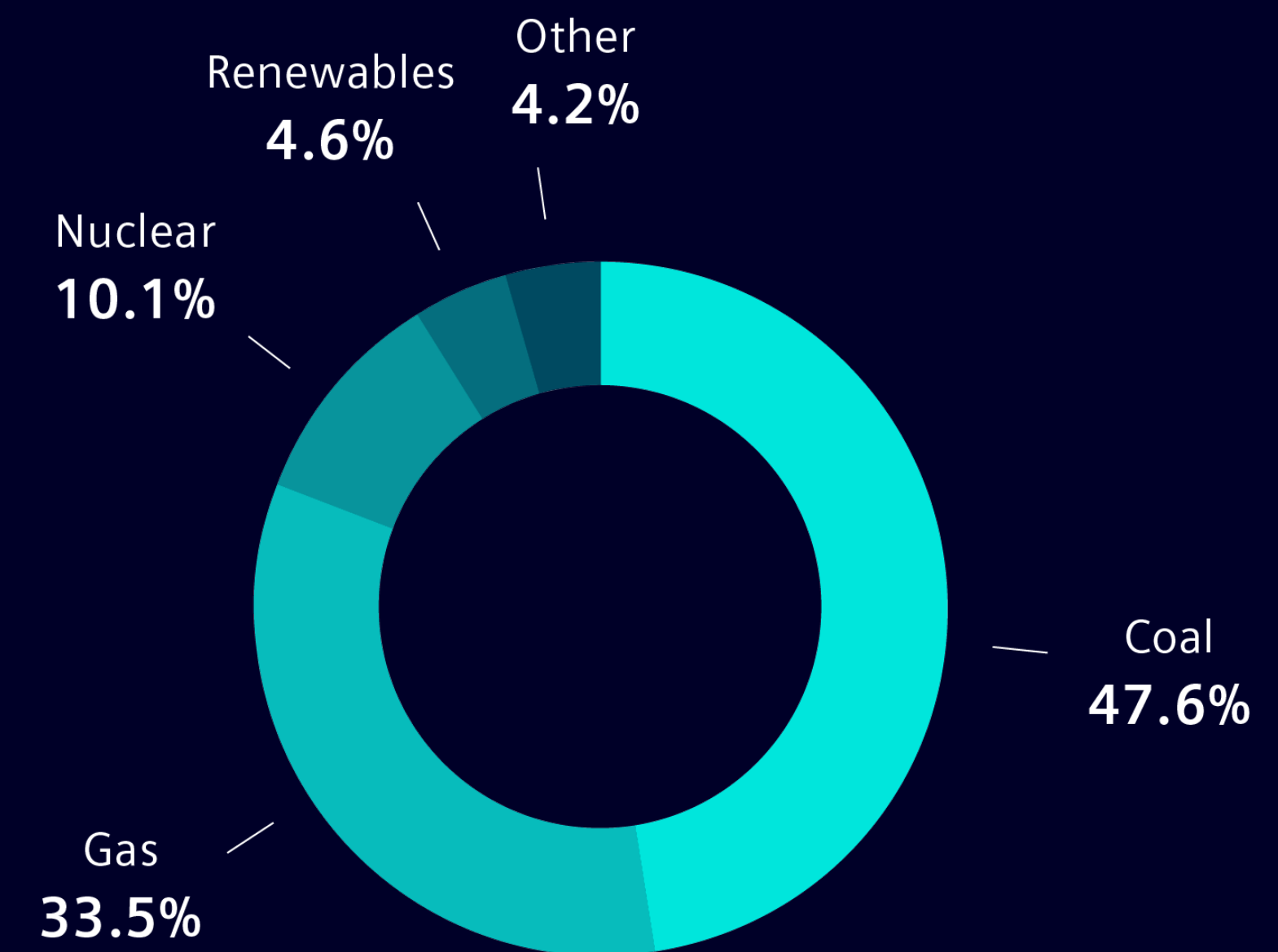
SUSTAINABILITY

Smart grid management helps to stabilize energy demand

Sensors, meters, and other physical devices distributed across Taipei link the IoT network to the smart grid, providing constant feedback which allows suppliers to detect issues and respond to user needs. According to **some estimates** this could lead to a 3.9% reduction in greenhouse gas emissions by 2030. The government aims for 20% green electricity by 2025.

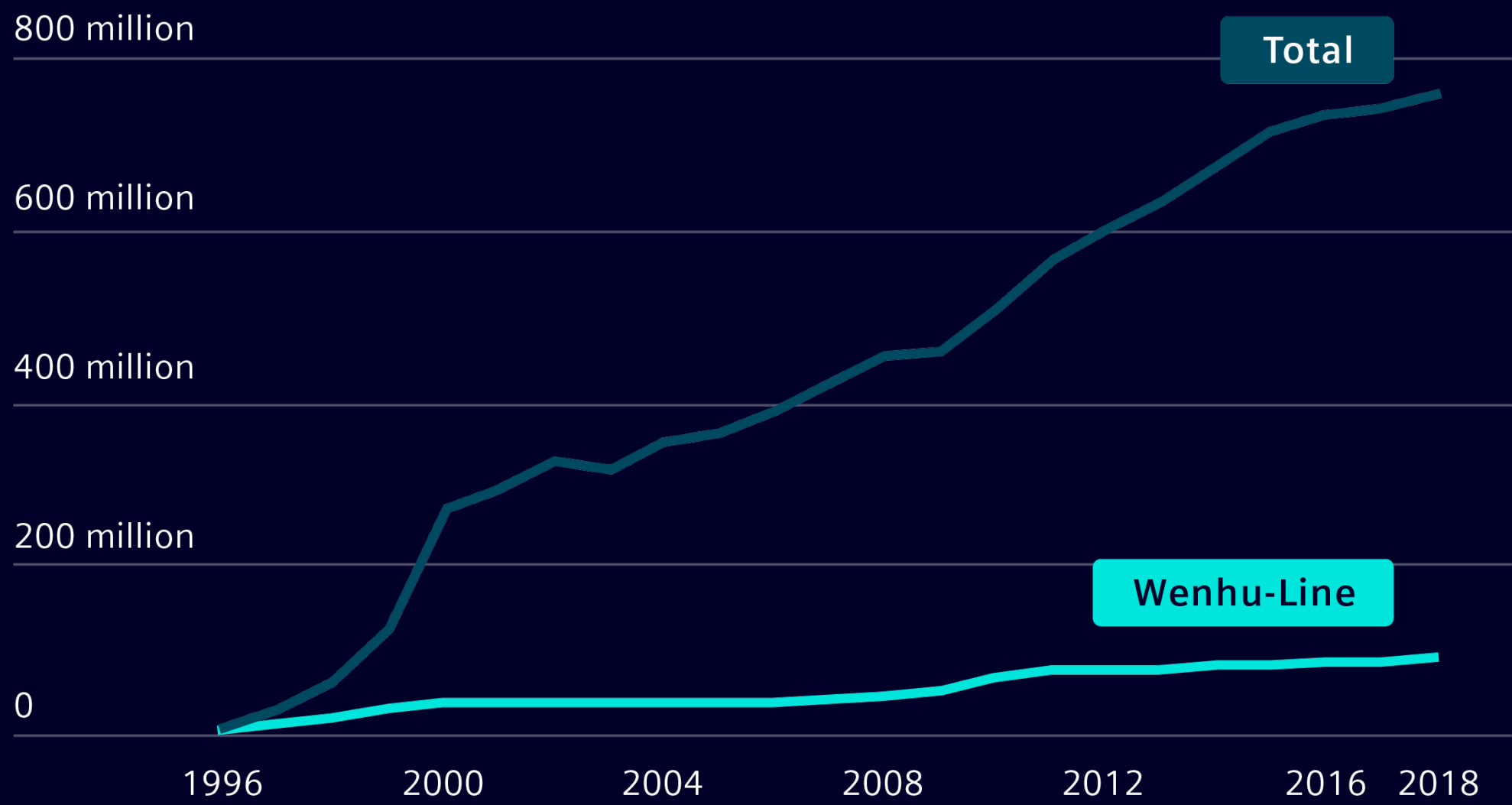### Taiwan's electricity power generation mix, 2018

Renewables
4.6%

Other
4.2%

Nuclear
10.1%

Coal
47.6%

Gas
33.5%

Source: **Bureau of Energy, Ministry of Economic Affairs**

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MOBILITY

Real-time data makes trip planning easy

The national government's smart transport initiative demonstrates a readiness to supply data to meet public demand for traffic updates. By looking up at a digital sign or checking an app on your phone you can understand the time and pace of nearby buses, find shared bikes, and gauge the congestion level of roads to plan trips.

Annual ridership on the Taipei Metro

Source: **Taipei Rapid Transit Corporation**

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OPPORTUNITY

Digital monitoring protects landmarks and citizens from natural disasters

As part of the urban ICT strategy, Siemens helped to launch the cloud-based IoT operating system MindSphere. Digitalization for infrastructure can help cities build resilience to natural disasters. By measuring the intensity of the tremor and communicating that information in real-time, incidents can be managed proactively, identifying the safest places for evacuees to take refuge.

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