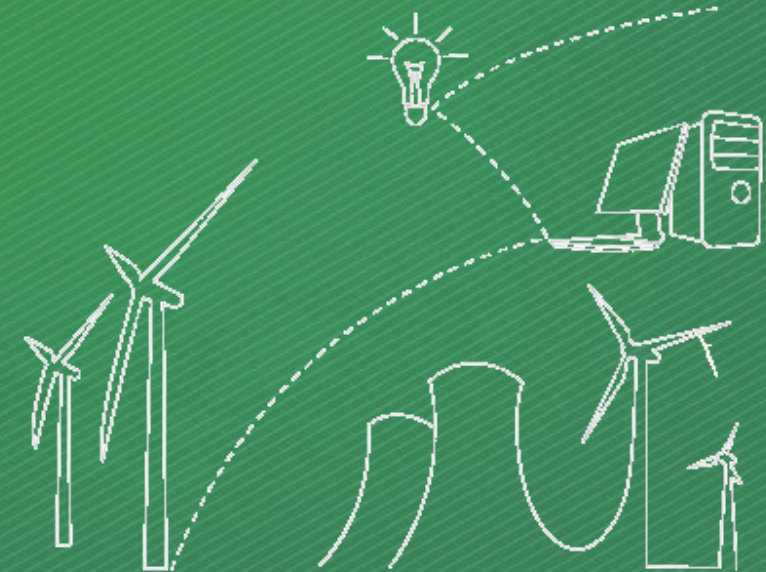


State Grid serves China's climate goals for green development



The largest power grid in the world

Service Area

88% of China's
territory

Our Customers

over **1.1 billion**

Installed Capacity

2,000 GW

Transmission Lines
of 110/66 kV and
above

1.237 million km

Transformation
capacity

5.7 TVA



The highest voltage of our transmission lines

1000kV AC

± 1100 kV DC

**We are running power grids at the
highest voltage level in the world.**

Fastest growth of clean energy

Wind

302.8 GW

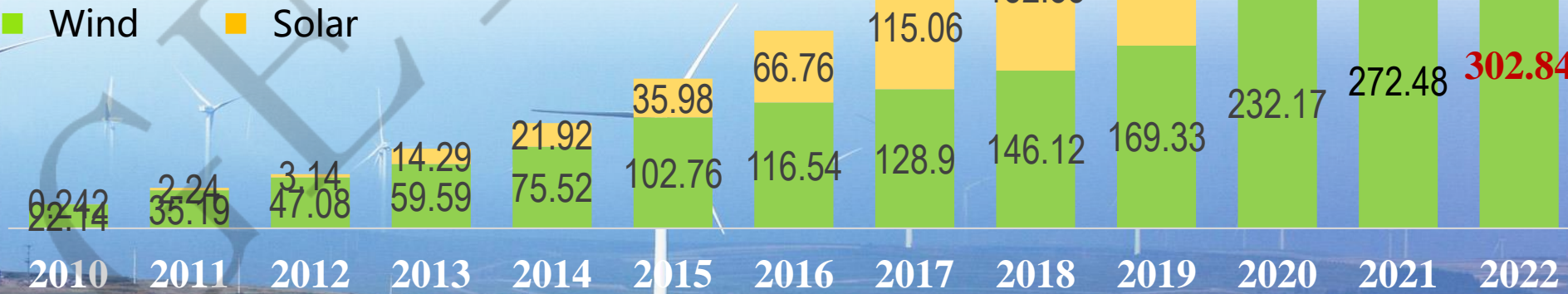
Solar

336.3 GW

Hydro

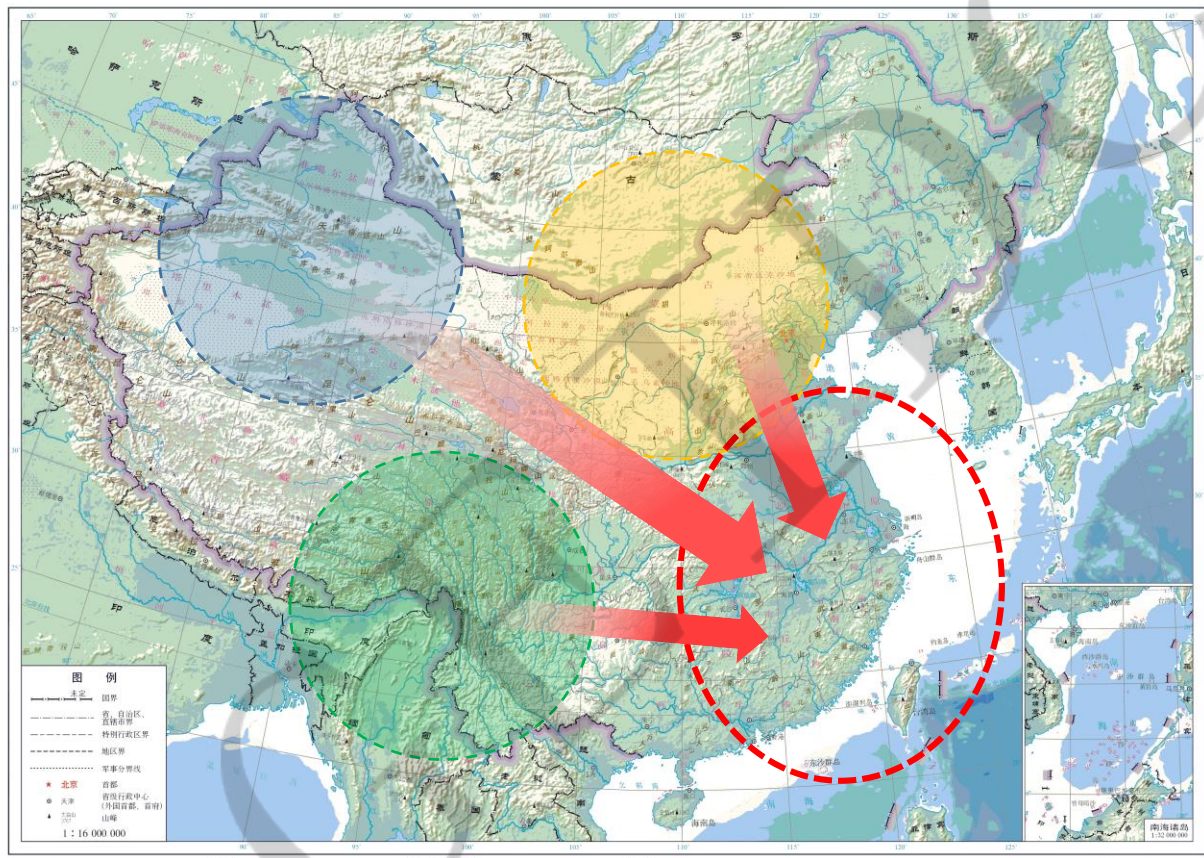
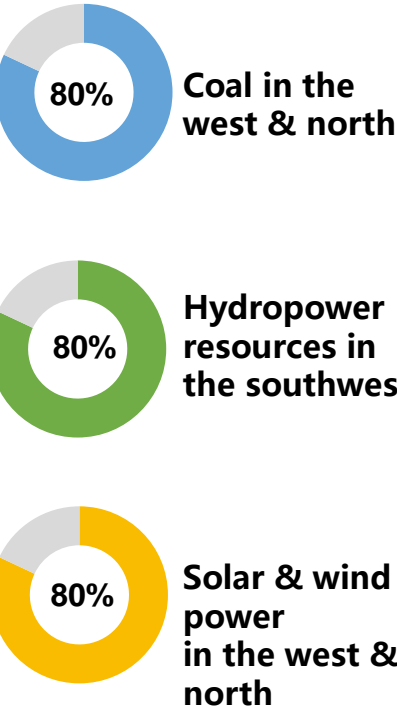
272.1 GW

World's **No. 1** in terms of installed capacity,
utilizing over **97%** of the integrated new energy



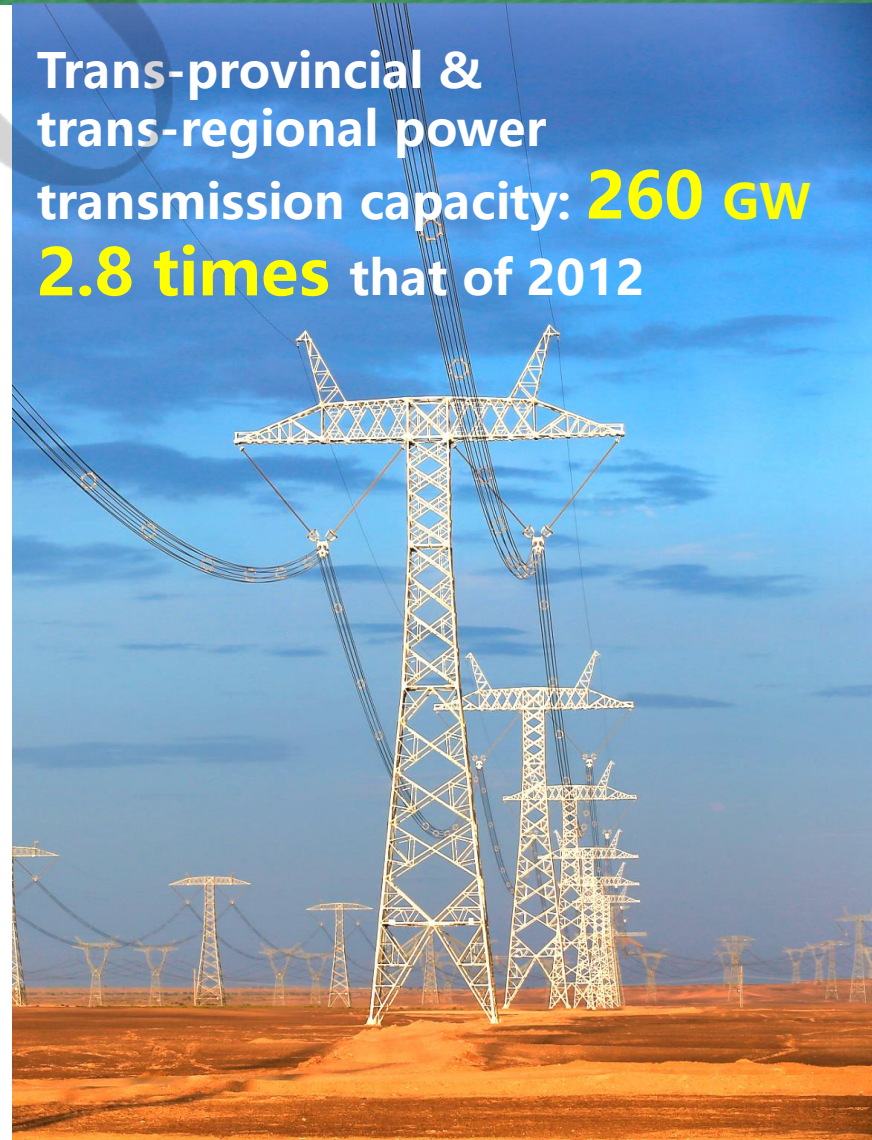
Installed capacity in service areas of State Grid (in GW)

Sending electricity from West to East North to South Balancing power supply & demand across regions



Energy resources & load centers in different regions

Trans-provincial & trans-regional power transmission capacity: **260 GW**
2.8 times that of 2012



Green development



2030 | To peak carbon emissions
2060 | To achieve carbon neutrality

The first Chinese enterprise to release an action plan on China's climate goals

To be a facilitator, pioneer and leader of energy transition

Boosting integration and consumption of renewables

- Completed the world's biggest "new energy cloud," a platform for projects on new energy
- Connected **3.3 million** wind farms and solar power stations
- Serving nearly **13,000** upstream and downstream enterprises



System Design of the New Energy Cloud

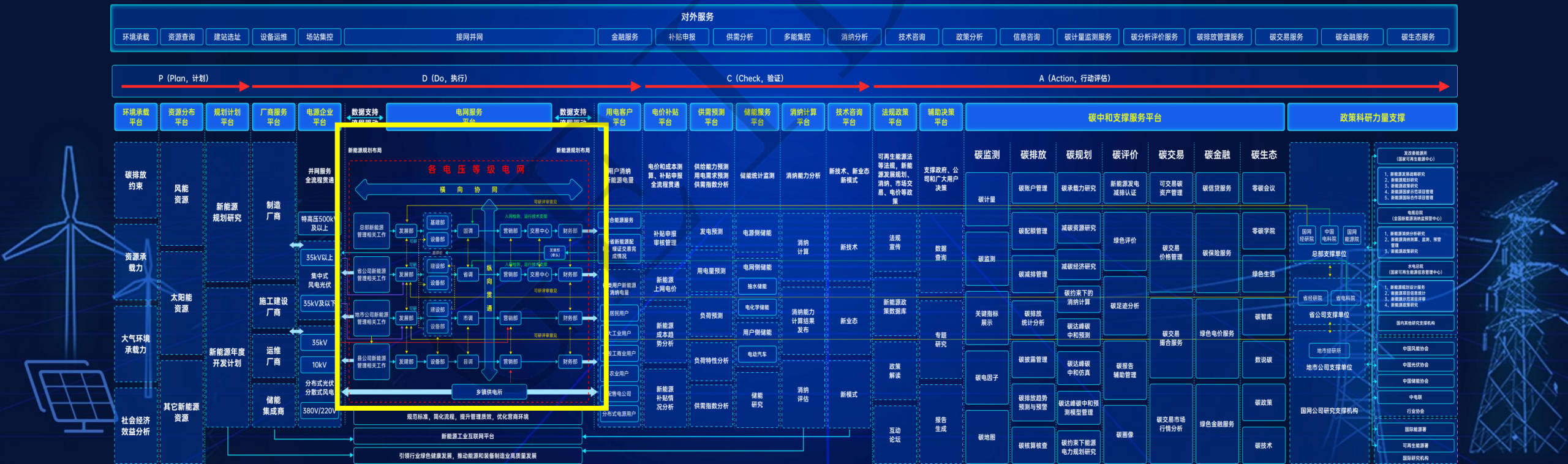
System Architecture

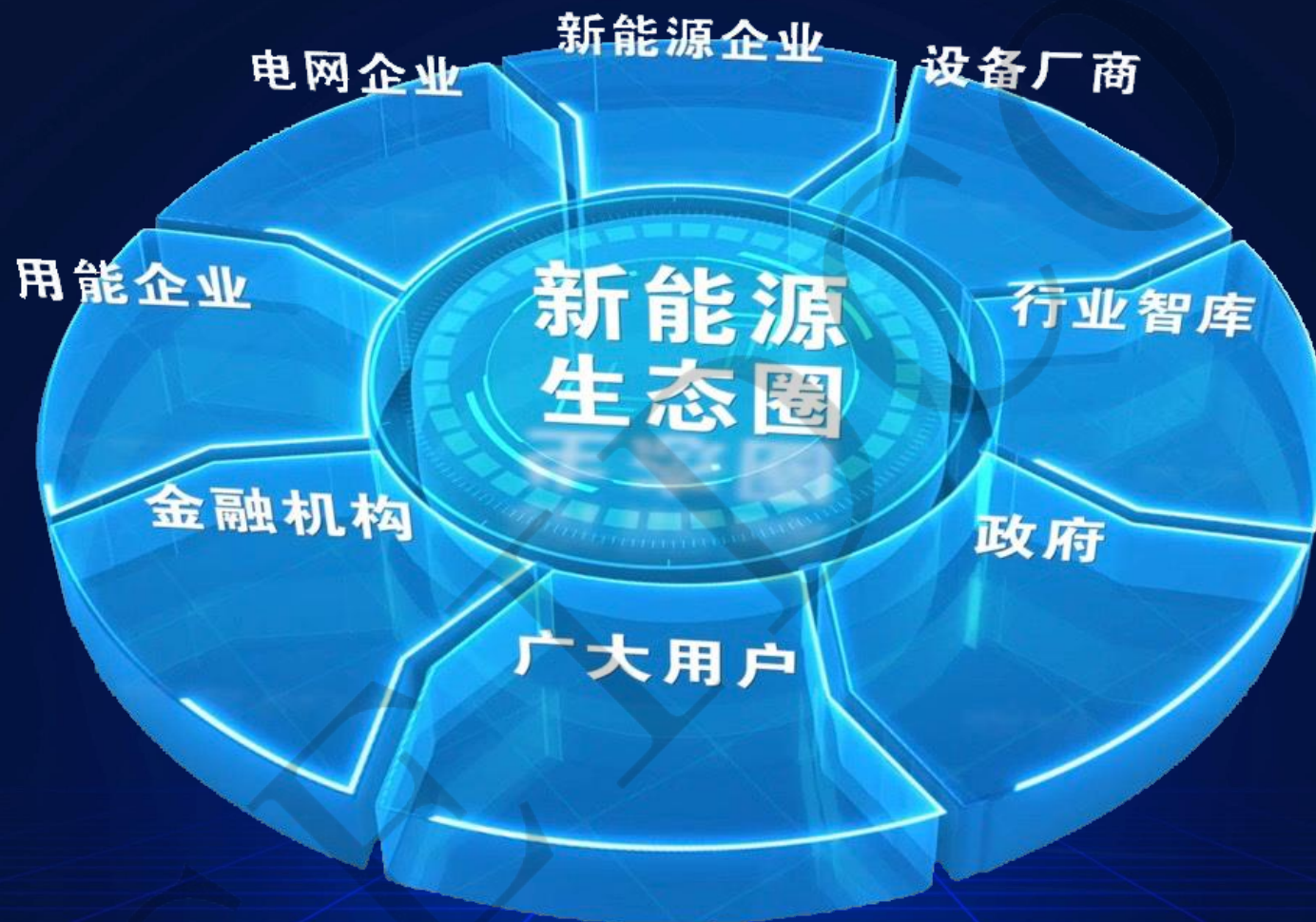
Feature: Service orientated

Principles: serve the overall development of the country. Serve State Grid' s strategy of building a world-leading energy internet enterprise with Chinese characteristics

Aims: serve China' s energy security. Serve energy transition. Serve green development and carbon neutrality. Serve the construction of a new type of power system. Serve our customers

Goals: build a world-leading new-energy digital-economy platform with Chinese characteristics, establish a exclusive new-energy service system that is multidimensional and well-coordinated and covers full-link, full-connection, full-coverage, full-ecology and full-scenario





The New Energy Cloud has shaped an inclusive value-creation platform for the whole industrial chain and stakeholders, integrating government, think tanks, equipment manufacturers, new energy generators, grid operators, business & industrial customers and financial institutions.

China will further the energy revolution, accelerate the planning and construction of the new type of energy system, and engage in global governance in response to climate change.

State Grid will spare no effort to ensure reliable power supply, speed up the construction of the new type of power system with more renewables. **Expand the New Energy Cloud nationwide**, incorporating energy data and the whole energy industry chain. Build four service platforms for **Resources Optimization, Carbon Neutrality, Technology Innovation** and **New Energy Industry Internet**, to serve green power trading and green finance.



Looking ahead, State Grid will

fast track efforts to build a new type of power system with more renewables,
ensure safe and reliable power supply,
promote the green transition,
help China realize the climate goals,
support quality development of economy and society, and
power better life and a beautiful China.



北京 2022 年冬奥会官方合作伙伴
Official Partner of the Olympic Winter Games Beijing 2022





北京 2022 年冬奥会官方合作伙伴
Official Partner of the Olympic Winter Games Beijing 2022

Upholding the idea of a community with a shared future for mankind, and the principle of extensive consultation, joint contribution and shared benefits,

**State Grid wishes to
strengthen communication and cooperation with peers around the world
to develop a global energy Internet
with concerted efforts, shared aspiration and strong commitment
to address climate change, and
foster sustainable growth in the energy sector globally.**



国家电网
STATE GRID



北京 2022 年冬奥会官方合作伙伴
Official Partner of the Olympic Winter Games Beijing 2022

Thank you!