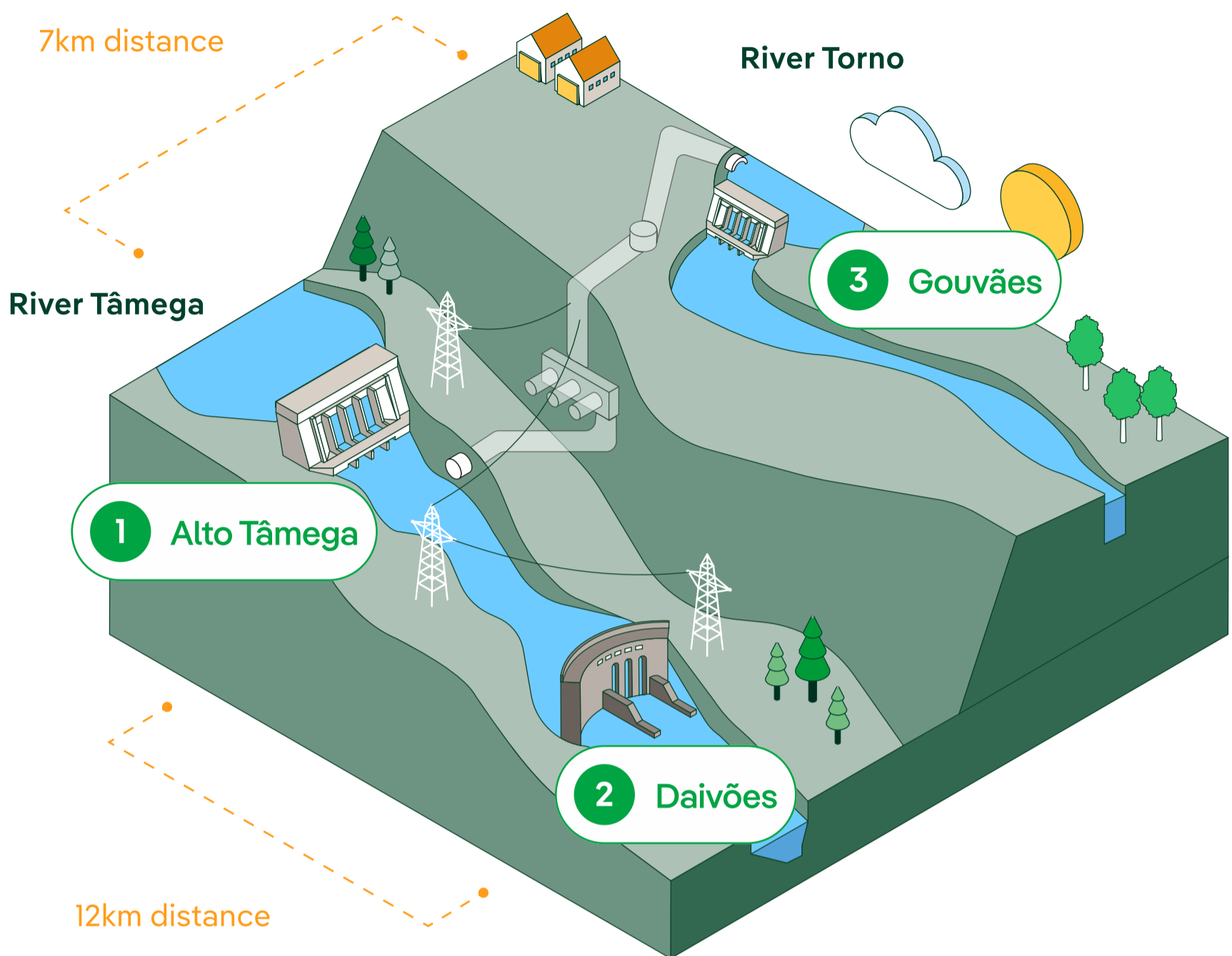


Tâmega giga battery



1 Hydroelectric development at Upper Tâmega

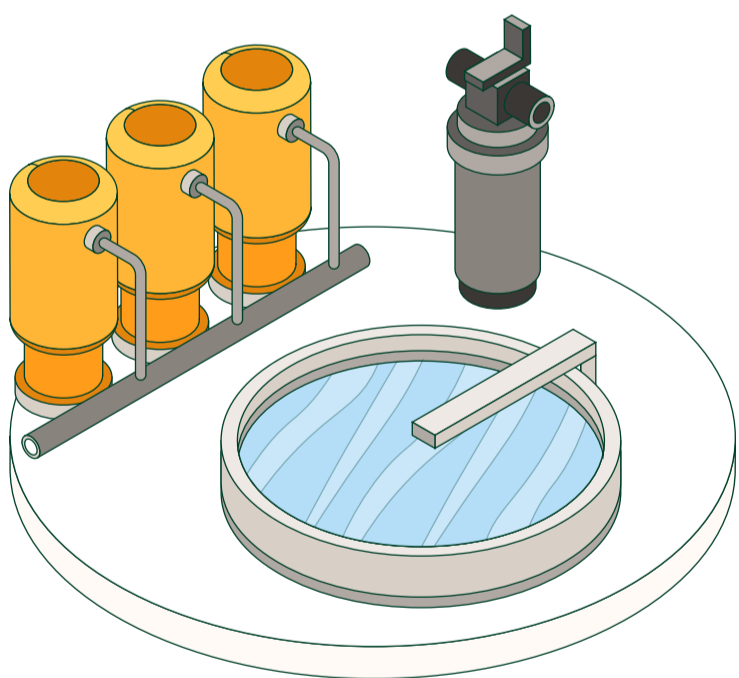
- Dam height: 104.5 m
- Hydraulic circuit length: 50 m
- Gross fall: 87 m
- Installed capacity: 160 MW
- Reservoir area: 468 ha
- Reservoir volume: 132 hm³

2 Hydroelectric development at Daivões

- Dam height: 77.5 m
- Hydraulic circuit length: 250 m
- Gross fall: 64.5 m
- Installed capacity: 118 MW
- Reservoir area: 340 ha
- Reservoir volume: 56.2 hm³

3 Hydroelectric development at Gouvães

- Dam height: 34 m
- Hydraulic circuit length: 7,640 m
- Gross fall: 657 m
- Installed capacity: 880 MW
- Reservoir area: 176 ha
- Reservoir volume: 13.7 hm³



Pumping system

- The only technology that **stores** large amounts of energy **efficiently**.
- Essential as a **back-up and support** for **other renewable energies**, especially **wind and photovoltaic**.
- **Independent** operation of the hydraulics.
- It contributes to the **stability of the electricity system** thanks to its enormous flexibility to respond to demand changes.
- It **moderates electricity prices** by producing stored energy at times when the **system needs it most**.