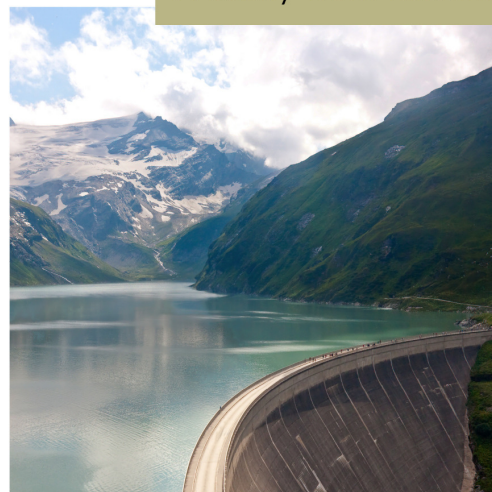


Climate change and renewable energy

Value creation opportunities for the Swiss economy

A study from McKinsey & Company



Summary

Zurich, February 2010



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Eidgenössisches Departement für
Umwelt, Verkehr, Energie und Kommunikation UVEK

Bundesamt für Energie BFE

Energy-efficiency measures and renewable energy create jobs for the Swiss economy

Energy efficiency and renewable energy are among biggest growth markets in the next decades

1

Investing in energy-efficiency measures for buildings and automobiles, and developing renewable energy will create value and jobs in Switzerland

E.g., jobs in 2020:

- + 17,000 (buildings)
- + 7,000 (renewable energy)
- + 1,000 (transport)
- 14,000 (savings/financing)
- + **11,000 net new jobs**

2

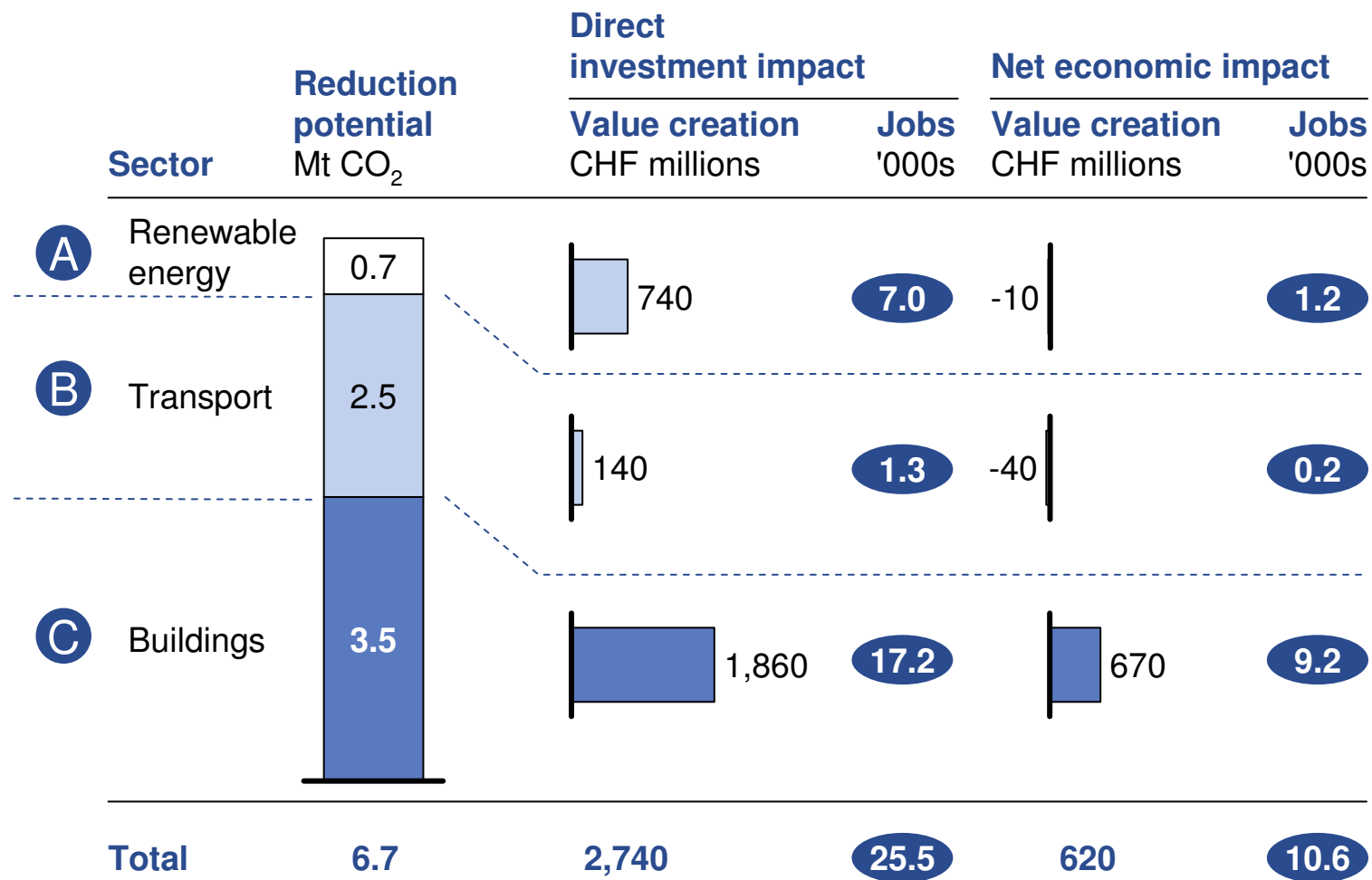
Swiss firms in energy efficiency and renewable energy sectors have significant growth opportunities up to 2020:

- + CHF 22 bn revenue
- + Approx. 48,000 jobs, of which
- + Approx. **16,000 jobs** in Switzerland

Energy has strategic significance as it accounts for up 40% of revenues in Switzerland

1 Energy-efficiency measures for buildings, in particular, cut CO₂ emissions and create jobs

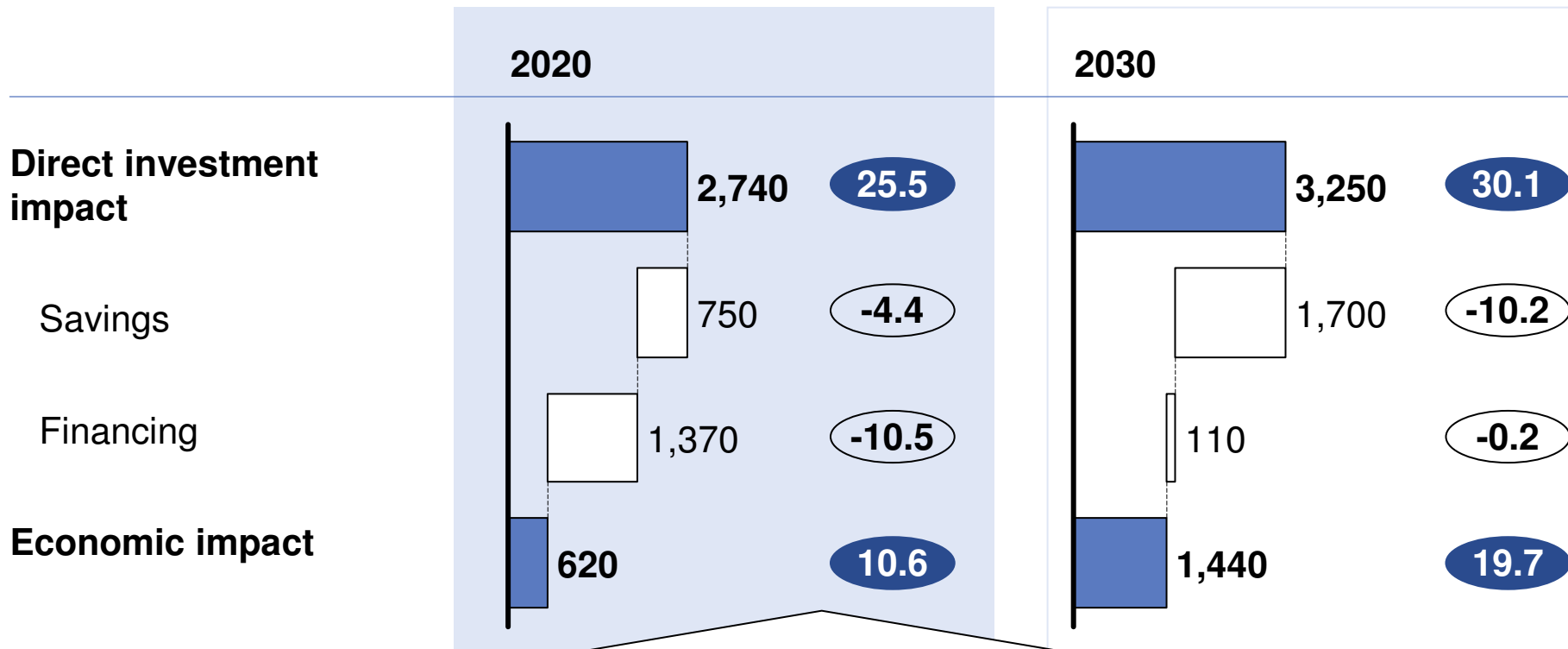
Impact in Switzerland 2020 vs. reference scenario



1 Implementation creates additional value and jobs up to 2030

Value creation impact in Switzerland, CHF millions

... Number of jobs in Switzerland, '000s

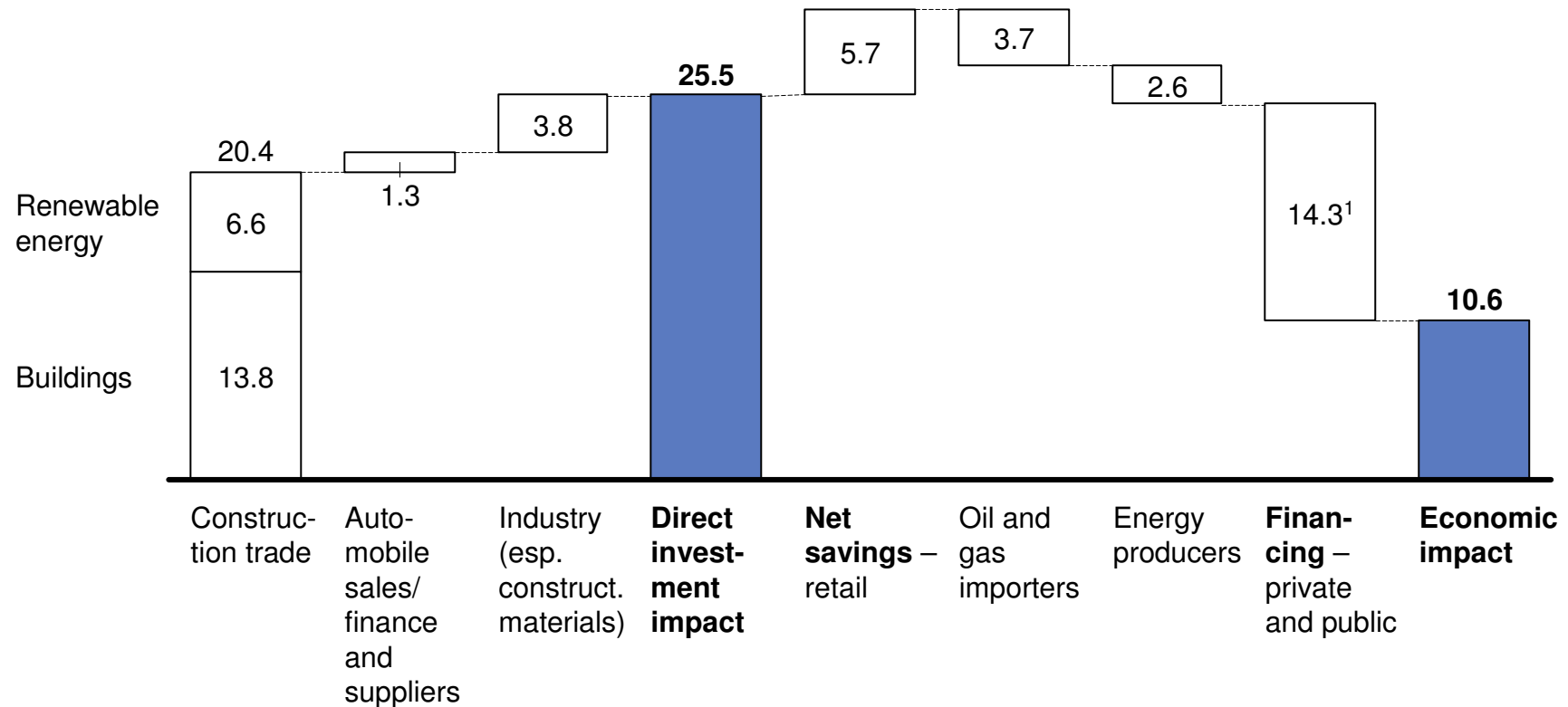


Impact in Switzerland vs. reference scenario

- A** Developing renewable energy
- B** Savings from low-emissions automobiles
- C** Energy-efficiency program for buildings

1 Implementing the measures could create over 10,000 net new jobs by 2020

Additional direct and indirect jobs in 2020, '000s

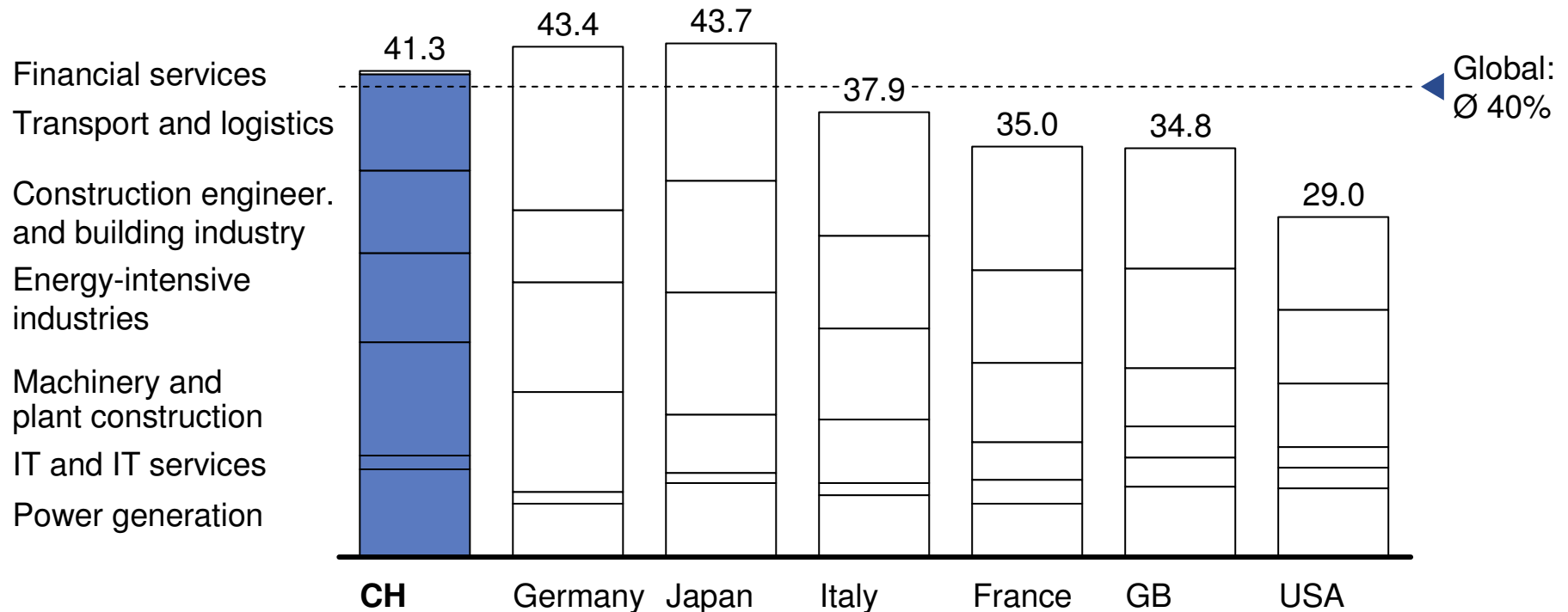


1 Applying average revenue-weighted multipliers to investment financing leads to the following estimates of job losses: manufacturing and farming/forestry ~4.9; financial services and real estate ~5.9; public administration ~1.8; construction trades ~0.6; transport ~0.3; energy supply ~0.8;

2 Net savings by motor vehicle owners leads to an additional 9,400 jobs in retail; however, 3,700 jobs less in retail due to reduction in consumer expenditure through financing of measures in other sectors

2 Switzerland earns a high share of revenues from energy-related sectors

Share of total revenues, percent, 2008

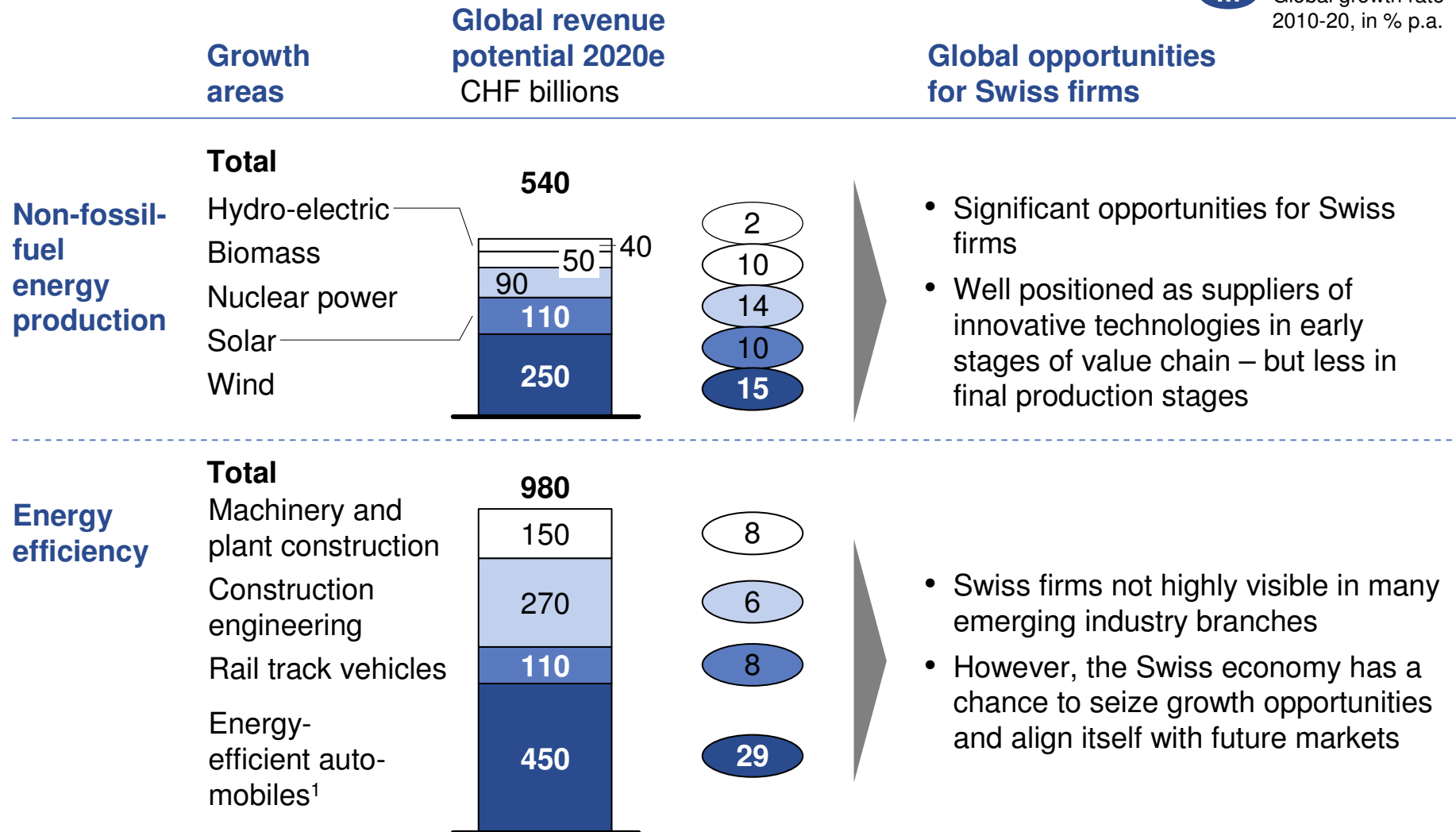


Revenues in relevant branches

CHF billion p.a.	~400	3,050	4,200	1,800	1,900	1,730	7,840
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2 Global growth opportunities for Swiss firms in markets for renewable energy and energy efficiency

... Global growth rate 2010-20, in % p.a.



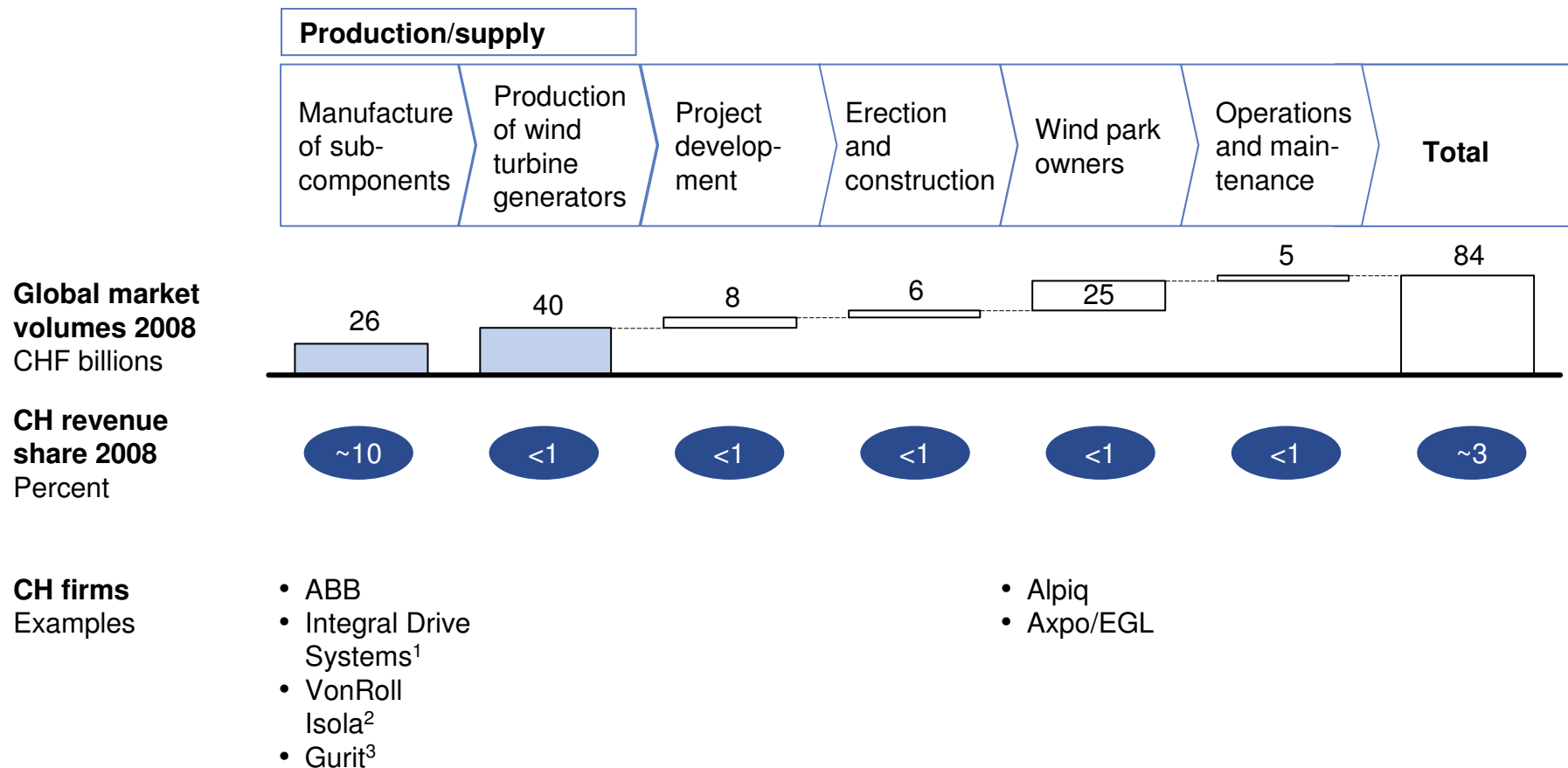
- Significant opportunities for Swiss firms
- Well positioned as suppliers of innovative technologies in early stages of value chain – but less in final production stages

- Swiss firms not highly visible in many emerging industry branches
- However, the Swiss economy has a chance to seize growth opportunities and align itself with future markets

1 Hybrid and electric vehicles as well as optimized combustion engines

2 Swiss economy especially well positioned to supply wind-driven power stations

EXAMPLE



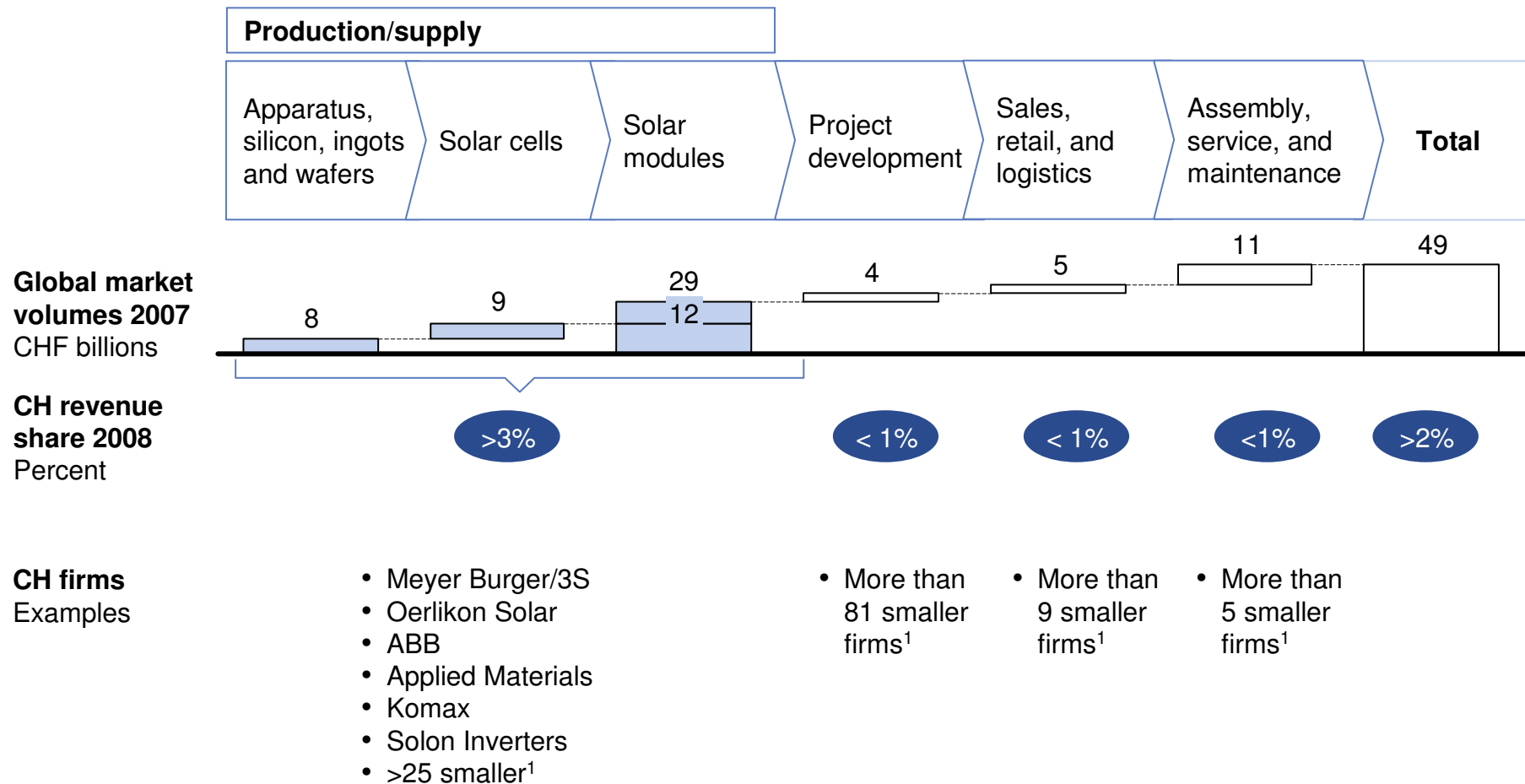
1 Manufacturer of inverters, for, among others, wind and solar energy, offshore drilling platforms, and energy distribution plants

2 Isolation systems for wind turbine generators

3 HQ in Switzerland; however, entire production for wind power is outside Switzerland

SOURCE: McKinsey, Suisse Eole

2 Swiss firms are also well positioned to supply the solar industry EXAMPLE

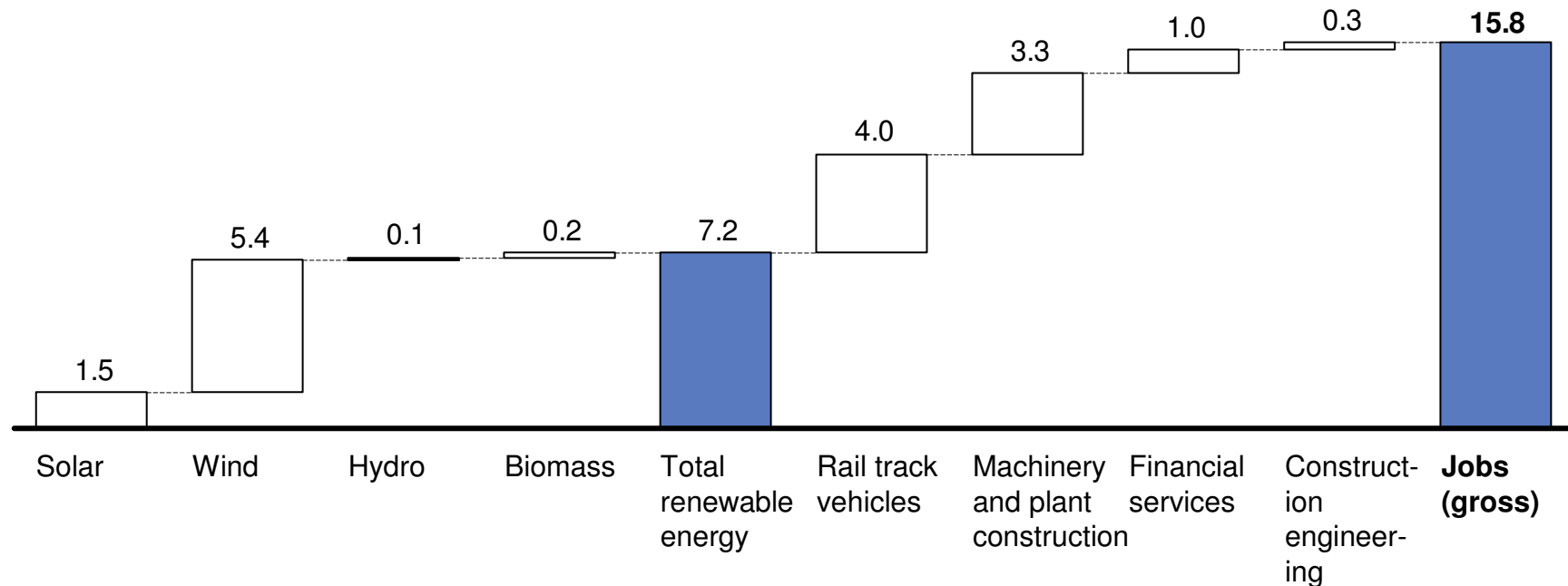


¹ Members of Swiss industry association SWISSSOLAR

SOURCE: McKinsey

② Seizing global growth opportunities enables creation of thousands of jobs in Switzerland

Additional direct jobs in Switzerland in 2020, '000s



Contact information

The study “**Climate change and renewable energy – value creation opportunities for the Swiss economy**” was carried out by McKinsey & Company on behalf of the Swiss Federal Office of Energy (SFOE) and is online at www.mckinsey.ch or www.bfe.admin.ch.

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