

3.9 DENMARK

enmark with a population of 5.1 million and a GDP of \$693 billion DKR (198+) (C\$ = 5.7 DKR) has broadened its economic base from agricultural products and beers to include machinery, electronics, textiles and pharmaceuticals.

In the period 1982-86, industrial investment increased 79 %, industrial employment was up 13 %, and industrial exports increased 41%. Denmark spends approximately 1.4% of GDP on R&D.

TECHNOLOGY STRENGTHS

Key technology areas listed below include companies which are highly recognized internationally.

- A) Agriculture and food technology Companies: Danisco, MD Foods, Tulip, Meat Research Inst.
- B) Biotechnology (Particularly within agri-food sector)
 Companies: Carlsberg, Novo-Nordisk, Chr. Hansen Lab., Danisco, Dakopatts
- C) Medical products/Pharmaceuticals Companies: Novo-Nordisk, DAK, Loeven, Lundbeck, Ferrosan
- D)Health care products/Handicap aids Companies: Coloplast, Ambu, Danish Health Care Systems
- E) Electronics/Medical electronics (Often niche-oriented and based on advanced transducer technology) Companies: Radiometer, Bruel & Kjaer, Oticon, Widex, Simonsen & Weel, Foss Electric
- F) Ships and harbours Companies: Maersk, Cowi, Carlk Bro, Ramboll & Hannemann, Danish Hydraulic Inst., Welding Inst.
- G)Process regulation Companies: Danfoss, S.T. Lyngsoe
- H)Energy technology Companies: I. Druger, Cowi, Haldor Topsoe

- Waste management technology including hazardous waste Companies: Kommune Kemi, Chemcontrol
- J) Agriculture machinery Companies: Dania, Taarup
- K) Cement industry and machinery (Turn-key installations) Company: F.L. Smith recognized world leader

KEY ORGANIZATIONS

These include:

- National Agency of Industry and Trade
 Responsible for administration of national technology-related schemes and programs, regional development programs, export development programs and trade regulations.
- Academy of Technical Sciences
 Established 1937 as an independent institution to promote technical and scientific research for the benefit of trade and industry.
 Among the 20 non-profit institutes affiliated to the Academy are Danish Research Centre for Applied Electronics, Danish Welding Institute, Danish Institute of Biomedical Engineering and Danish Hydraulic Institute.
- Risoe National Laboratory
 Largest national research institute
 in Denmark. Has high interna tional representation among
 researchers. Priority areas:
 applied and basic research within
 energy, materials science, chem istry, biology.

PAGE SIXTY FIVE