

Siemens AG

Canada Pension Plan Investments

2012 shares = \$15 million
(Direct & indirect investments)

2011 shares = \$13 million
(Direct investments only)

As the largest engineering conglomerate in Europe, with assets of US\$103 billion, this highly-diversified German company makes everything from computers and trains to industrial, healthcare and telecommunications technologies. Siemens' products are also highly prized by military clients, including the US armed forces, which gave US\$1.6 billion dollars worth of business to Siemens between 2000 and 2009.

Prior to WWII, Siemens helped finance the Nazi Party's rise to power. Then, during that war, Siemens used about 100,000 Auschwitz prisoners as slave labourers and supplied electrical components for the Nazi war machine.

Since the mid-1990s, Siemens has been acquiring and partnering with Israeli communications, semiconductor and energy companies. Its investments in Israel total over US\$600 million.

Siemens has provided propulsion motors and other systems to eight submarines in Israel's Navy. For example, the company has supplied Israel's three "Gal"-class subs with: "Battery-electric propulsion system, propulsion motor, generators, switchboards, ship's network, diesel monitoring, hoistable masts control, degaussing system, sound-powered telephones."

Siemens also provided the Israeli Navy's three "Dolphin" class subs and two "Dolphin II" class subs, with:

"Propulsion motor, armature/exciter current chopper, propulsion system, electrical ship's network, engineering, monitoring and control system, battery monitoring system."

In June 2012, Germany's *Spiegel* magazine reported that it had "learned that Israel is arming the submarines with nuclear-tipped cruise missiles." In May 2012, *Defense Technology News* reported:

"Israel has taken delivery of its fourth German-made Dolphin-class



Defense-Technology News, May 6, 2012



Israeli Dolphin "Tanin," Kiel shipyard in Germany

Siemens makes the propulsion motors and power systems for Dolphin subs that "Israel is arming... with nuclear-tipped cruise missiles." Israel is the only Middle East country with nuclear weapons but has never allowed international inspectors to enter its nuclear facilities. Israel has always refused to sign the Nuclear Non-Proliferation Treaty.

submarine capable of carrying nuclear warheads with an operating range of 4,500 kilometers."

Meanwhile, Siemens Netherlands exported simulators to train Israeli navy personnel how to operate its subs. Israeli instructors trained at Siemens' Netherlands facility for 10-11 weeks before simulators were moved to the Haifa naval base where Israel's five "Dolphin" subs are stationed.

Siemens is also the "main equipment manufacturer" for several power stations run by Israel's state-owned power utility, the Israel Electric Corporation (IEC). This is significant because, according to Israel's *Haaretz* newspaper, the Israel Defence Forces are IEC's "largest domestic customer."

A search of the IEC's website finds that Siemens has provided the "main turbines" and "generators" used in several Israeli gas- and oil-powered electrical plants, including: Hagit, Gezer, Eshkol and Ramat Hovav. In 2008, the IEC bought five Siemens power turbines for US\$529 million. And, between 2002 and 2009, the IEC paid Siemens US\$70 million to upgrade turbines run on natural gas.

"Who Profits from the occupa-

tion" reports that Siemens' traffic control systems are installed on apartheid roads in the occupied territory by Israel's Orad Group. (See "TE Connectivity," pp.42-43.) Only Israelis, and not Palestinian motorists, are allowed access to these roads.

Since 2006, Siemens has developed water-treatment technologies for Mekerot, Israel's national water authority. Through this partnership, Siemens is deeply complicit in the theft of Palestinian water by Israel's government. Since 1967, Mekerot has overseen the appropriation of Palestinian wells. It has supervised well drilling in Israel's West Bank settlements, while systematically denying new permits to Palestinians. Teachers for Palestine note that "Of the water available from West Bank aquifers in 2008, Israel used 73%, West Bank Palestinians used 17% and illegal Jewish settlers 10%. Israel consumes the vast majority of the water from the Jordan River despite only 3% of the river falling within its pre-1967 borders."

To supply Israel with water during the dry summer months, Mekerot cuts off water to Palestinian communities, thus allowing

Sony Corp.

“Illegal Israeli settlers...to replenish their swimming pools and water their lawns while Palestinians, whose land has been appropriated for the settlements, lack drinking and cooking water.”

In 2000, a wholly-owned Siemens AG subsidiary called Siemens Enterprise Communications received a US\$1.2-million contract for communications systems used in US-made AH-64 attack helicopters. This variety of helicopter has been transferred to Israel and used in attacks against Lebanon (2006) and Gaza (2007).

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Canada Pension Plan Investments

2012 shares = \$42 million
(Direct & indirect investments)

2011 shares = \$57 million
(Direct investments only)

Known largely for supplying consumer electronics products, like cameras, this Japanese multinational is the world’s fifth largest media conglomerate and has amassed total assets of US\$156 billion.

However, Sony’s camera consumers also include military, police and intelligence agencies. Between 2000 and 2009, Sony Electronics — owned by Sony’s US holding company — sold US\$67 million worth of products to the US military and US\$15 million worth to US law enforcement and spy agencies, such as the FBI, the Department of Homeland Security and the National Geospatial-Intelligence Agency. These contracts represented 85% of Sony’s sales to the US federal government.

Systems, Israel’s largest war industry. (See previous issue, pp.28-29.) LORROS is an elaborate remote-controlled sensor system used along Israel’s Separation wall and electronic detection fence. It uses night-vision infrared thermal sensing cameras, lasers for “accurate target ranging” and Sony cameras for “daytime” surveillance.

SIBAT, the Israeli Ministry of Defense, describes LORROS as being “ideal for border and coastal surveillance, critical infrastructure protection, intelligence gathering, artillery spotting & target acquisitions, reconnaissance of illegal activities.”

The type of Sony “image sensor” that is integrated into LORROS is described by Elbit as an “LRGC Day Camera.” To be exact, Elbit uses the “Sony EX view HAD CCD.” “EX view” is an “enhancement technology developed by SONY to improve [the] light sensitivity” of its CCD cameras. CCDs, or “charge-coupled devices,” are a major technology used in digital imaging. HAD stands for “Hole Accumulation Diode” which is a patented Sony technique for reducing “electronic



Sony video cameras are used in the Long-Range Reconnaissance and Observation System (LORROS) produced by Elbit Systems, Israel’s top war industry.

This remote-controlled, day-and-night sensor system is used along Israel’s Separation wall.

www.elbitsystems.com

LORROS Surveillance System

Sony’s technology is also integrated into the products of other corporations that serve the military, police and intelligence forces. For example, in Israel, Sony video cameras are used in the Long-Range Reconnaissance and Observation System, or LORROS surveillance system, which is built by the “Security Systems” branch of Elbit

noise” caused by the absence of light falling on the CCD imaging sensors.

So, in quasi-layman’s terms, although these Sony cameras are ostensibly used by LORROS for “daytime”-surveillance functions, Sony says they can “film in the dark by irradiating near infrared light...onto the object being filmed” and are therefore also suitable as “night-time surveillance cameras.”