Radiation processing : create new business opportunity

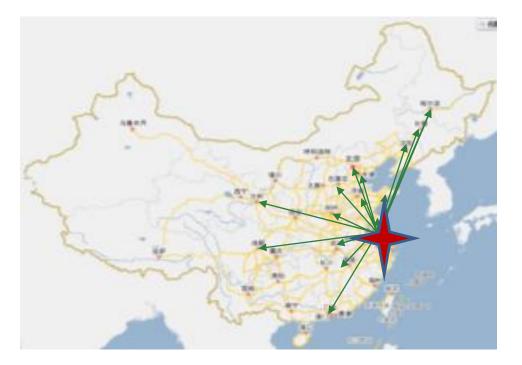
Dr.Yuwei Zhang EL PONT Wuxi El Pont Radiation Technology







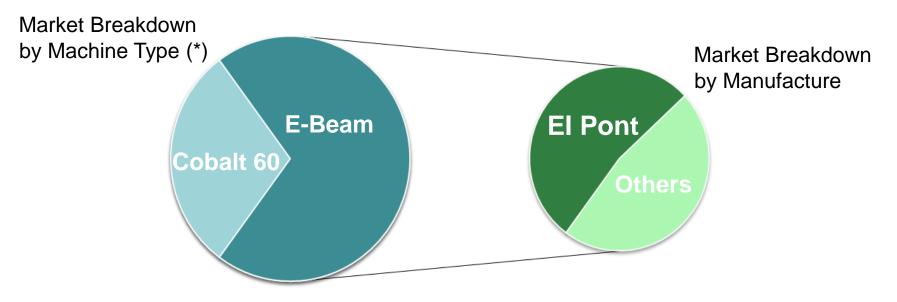






Leading supplier of China industrial E-beam solution

- No.1 market share in China, 200+ units in total sales
- The only research institute in China, dedicating to E-beam technology and winning governmental support



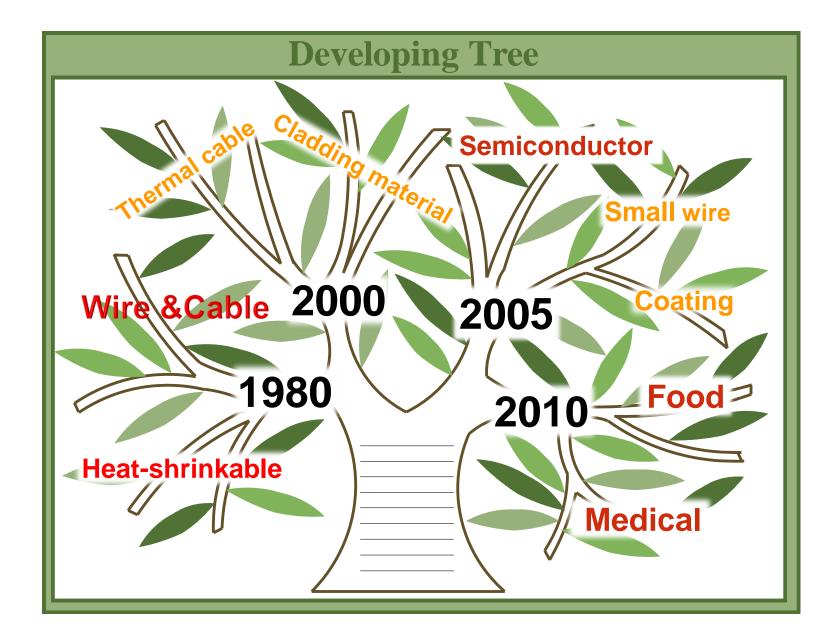
(*) Information source from China Isotope & Radiation Association, Oct 2013



Advantage of E-Beam Technology

- Clean energy
- Safer Equipment
- Environmental friendly
- High productivity







Mid-energy electron accelerator

China first electron accelerator



The Ministry of Posts and Telecommunications published Stamps for our accelerator

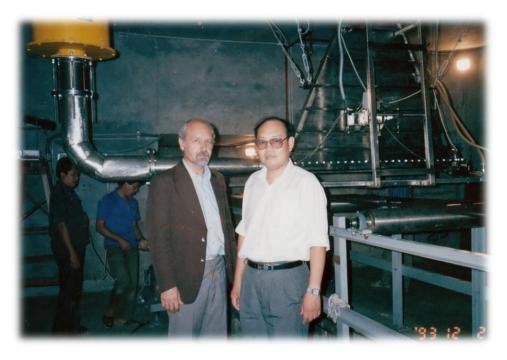


First export enterprise from China to many countries (Korea, Russia, India, Turkey, Indonesia etc).





Indonesia Atomic Energy Institute, 1992



Visited by Then-President

EL PONT

Supported by IAEA

≥22 years working life



First visit in 1992 for installation In Indonesia



Re-visited in 2014



Growth Cycle







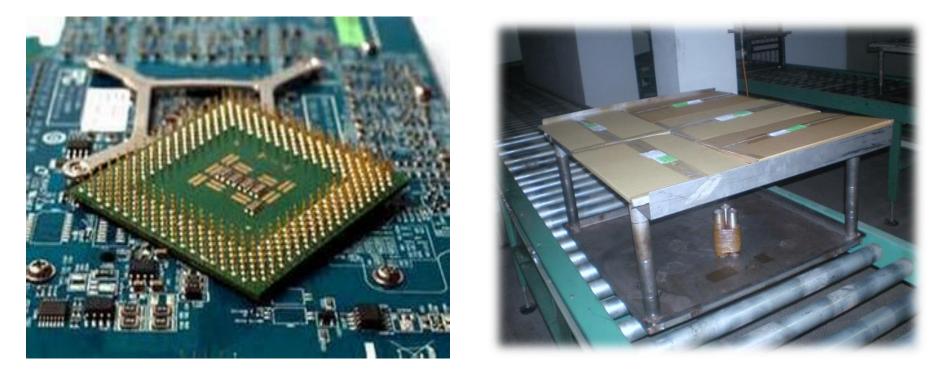
Mid-energy

- Total sales(1-3Mev):150+ units
- Main applications : wire & cable & Heat-shrinkable material, ect.
- Typical customers:CYG, CIAC, WOER,KINWA,etc.
- CYG has purchased 13 units.





5Mev accelerator -----Semiconductor & PTFE



Snapshot of semiconductor irradiation in workshops





Irradiated PTFE powder for global customers





Total sales(5MeV) : 10+ units.



Low energy electron accelerator -----Self-shielded



Self-shielded low energy electron accelerator

Sliding wall

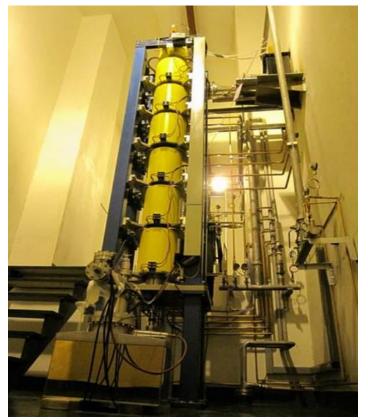


New product development -----Food and Medical irradiation



Total sales : 10+ Units







10MeV-20Kw S-band Linac electron accelerator 10MeV-40Kw L-band Linac electron accelerator



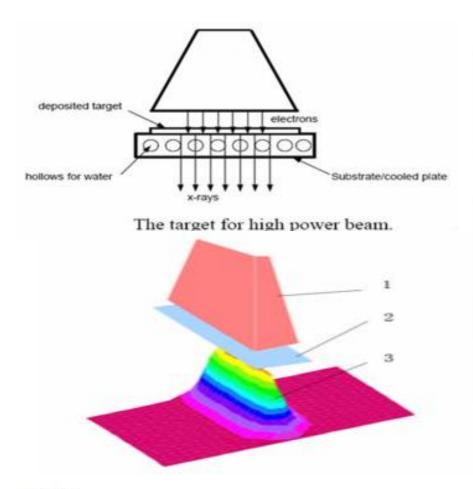
Headline News in Science and Technology Daily

(the most authoritative newspaper in China's science and technology area)

12 21	超润滑实验速度:从蜗牛爬飙至时速90公里
SCIENCE AND TECH REREARD SEWIE 40 CE H [http://www.sidady	
时政简报 ▼ □ 习近平同尼日 利亚总统养纳森会 读时强调,推动中 非新型战略伙伴关 系不断深入向前发 展 □ 李克强主持召 开部分省区经济形 势座谈会时强调,	我研制出L波段10MeV工业辐照电子加速器 替代钴源辐照 无损伤 无残毒 低能耗 操作简便



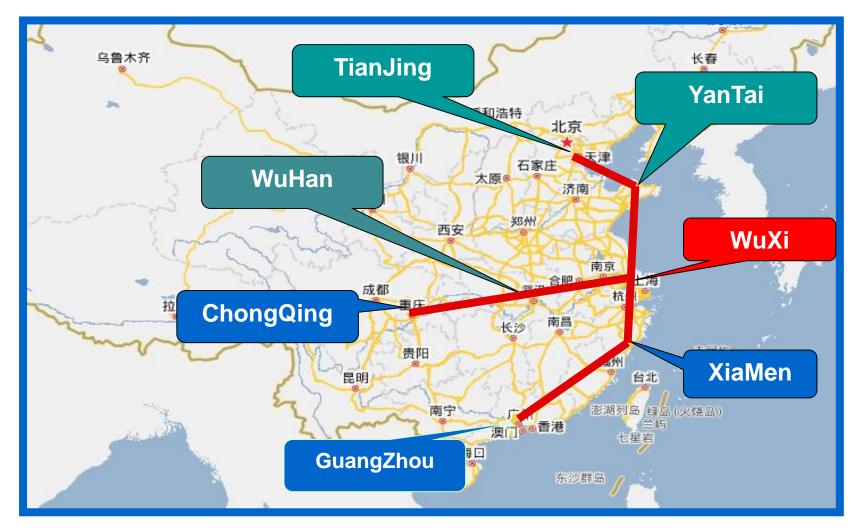
X-Ray Technology







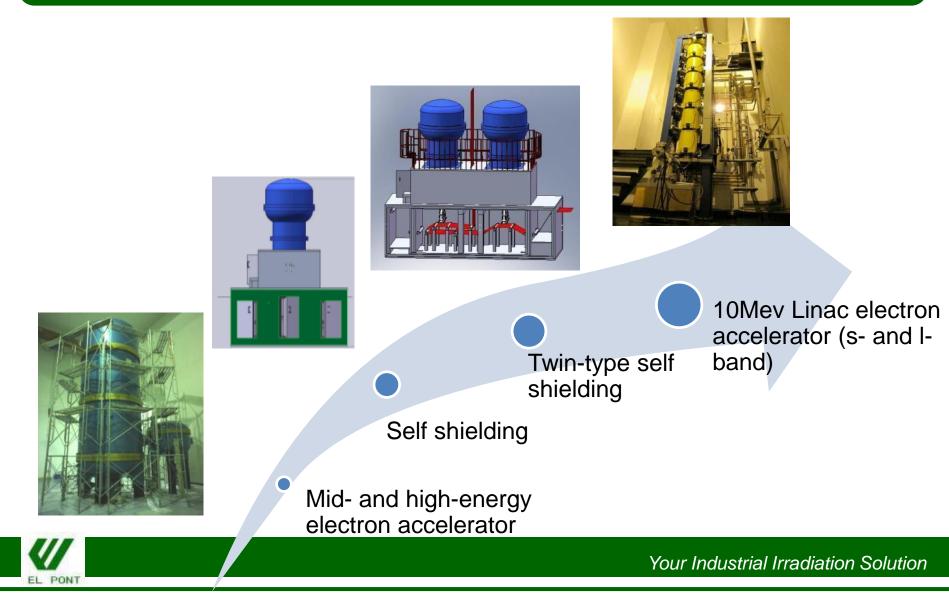
El Pont radiation service centres





Review & Summary:

The road of new product development in El Pont



Product Portfolio

★designing & manufacturing both HFHV type and Linac E-beam ★wider range of E-beam from 0.5MeV-10MeV ★Successful application of E-beam with x-Ray

Туре	AB0.2	AB0.5	ABo.8	AB1.0	AB1.5	AB2.0	AB2.5	AB3.0	AB5.0	AB10
Energy	0.2MeV	0.5MeV	0.8MeV	1.0MeV	1.5MeV	2.0MeV	2.5MeV	3.0MeV	5.0MeV	10MeV
Current	50- 10 0mA	100mA	80mA	80mA	67mA	50mA	40 m A	34mA	20mA	2mA, 4mA, 6mA
Beam power	10-50kW	50kW	64kW	8okW	100kW	100kW	100kW	100kW	100kW	20kW, 40kW, 60kW
Mode of shield	self- shield	self- shield	self- shield							
Applicati on	film	wire&ca ble ,tyre	wire&ca ble, film,tyr e	wire&c able, film,tyr e	wire&ca ble, heat- shrinkin g,foame d plastics	wire&c able, heat- shrinki ng	wire&ca ble, heat- shrinkin g	wire&cab le, heat- shrinking	wire&ca ble, heat- shrinkin g, sterilizat ion	steriliz ation



From follow the market to lead

- Persistence of technical innovation.
- Market development in new industry.
- Creating demand for the E-beam market.



Real Case: Film irradiation

- Open China irradiation film market.
- Total sales : ≈ 30 sets.



Film irradiation application





Snapshot----once signing 12 sets with ZheJiang ZhongCheng(16 sets in total)



0.2MeV designed for film industry



Tire irradiation online production





Our unique technology

Insulating gas: Adaptation of mixed gas(N2+CO2) to replace SF6





SF6 recovery system

Mixed gas



Core advantages :

1) low cost.

- 2) acquire conveniently.
- 3) safe & friendly environment.
- 4) non-reuse to guarantee insulation.
- 5) saving building area.

Marketing results :

Total sales : 95% accelerators.
 overseas market.
 Attract more attention.





2 units of 0.55Mev self-shield accelerator (ACOME , French)





- Deeper market understanding
- To seize the initiative
- Dare to challenge status quo.
- Fueling unlimited opportunities for E-Beam.



THANK YOU !

