

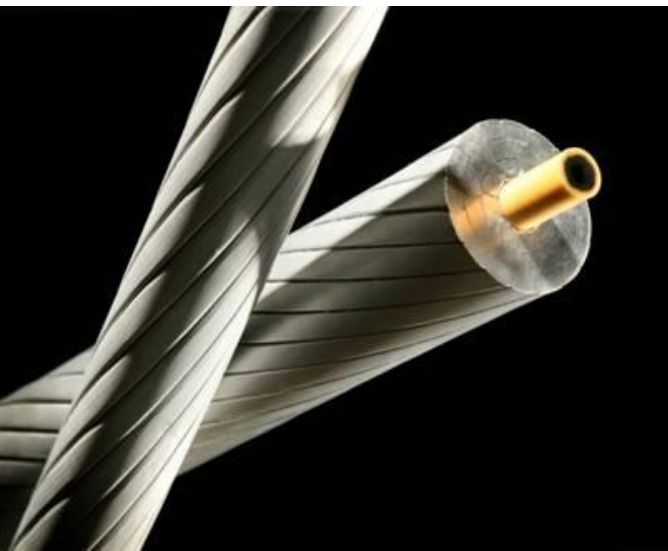


High Capacity/Low Sag Conductor for the Power Industry

WIA

November 9, 2010

Pat Avery, VP Business Development

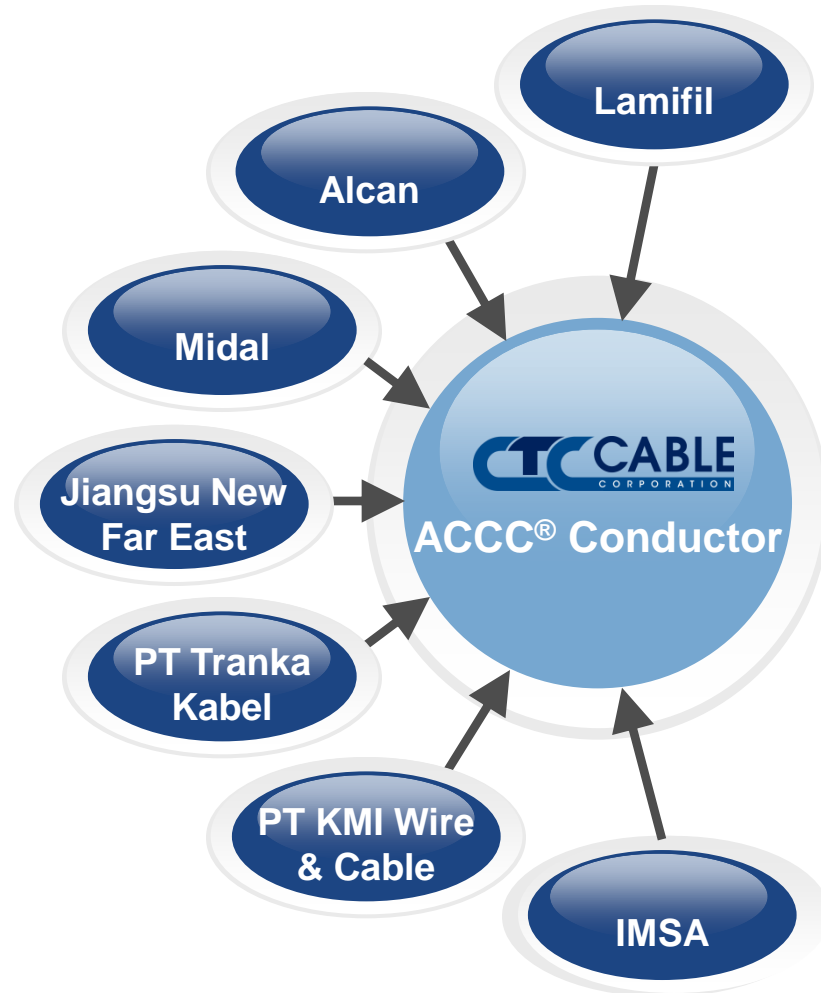


About CTC Cable Corporation

- **Headquartered in Irvine, California**
- **ACCC® Conductor Commercially Deployed in 2005**
- **ISO Certified Production in 2006**
- **Over 6,000 miles of Conductor Ordered or in Service**
- **Significant R&D - >10 patents**
- **Stranding Sources:**

Key Geographic Markets

- **Europe** – Lamifil
- **Canada/U.S.** – Alcan and Lamifil
- **Middle East** – Midal
- **China** – Jiangsu New Far East
- **Indonesia** – PT KMI and PT Tranka
- **South America** – IMSA

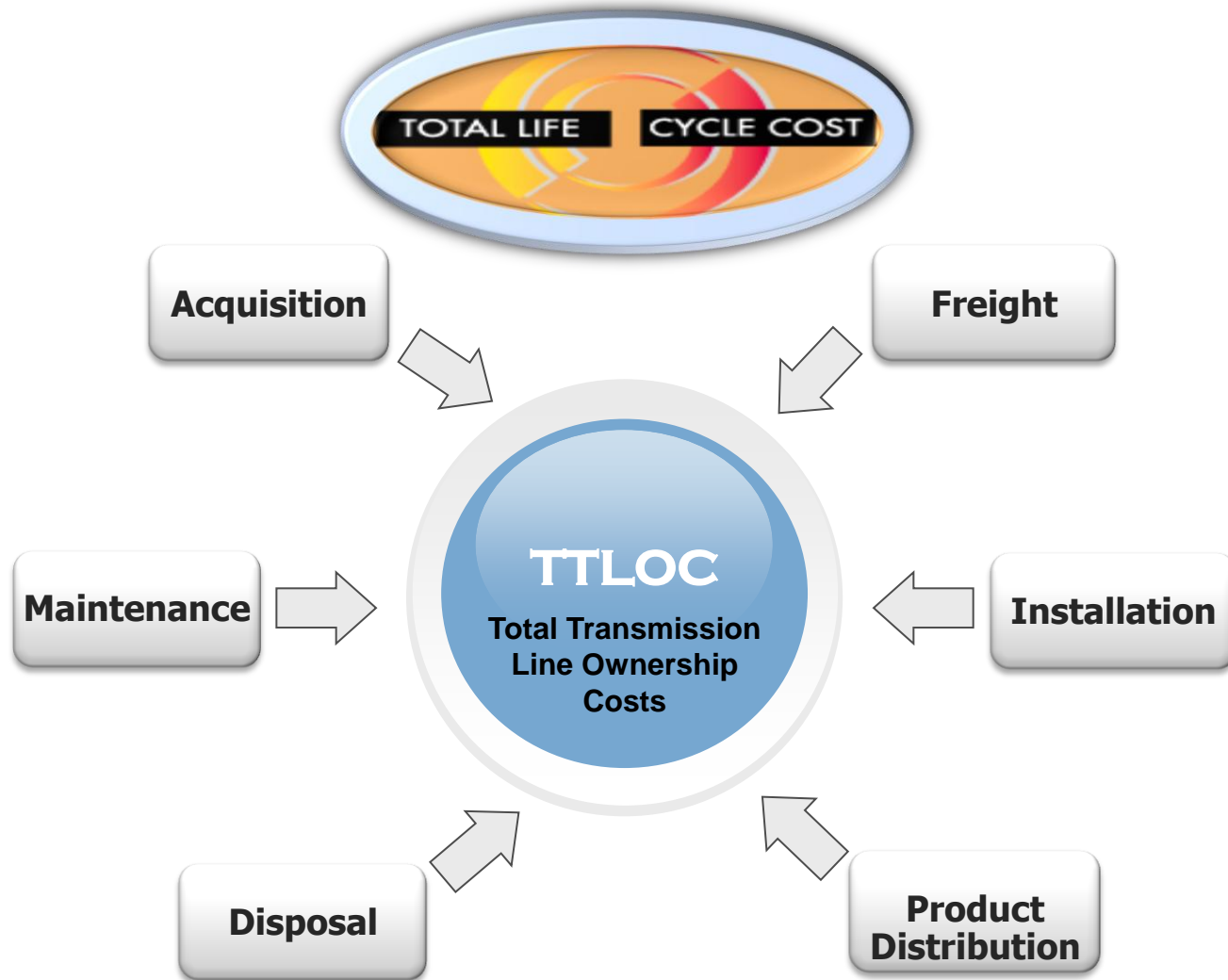


ACCC® Has Broad Utility Industry Acceptance



**Over 140 Projects / 9,300 km
Commercially Deployed Worldwide**

ACCC[®] Conductor Value Proposition



TTLOC = All Costs Associated with Products from Cradle to Grave

ACCC[®] Conductor Value Proposition

Competitive First Cost

- ACCC[®] conductor offers the best combination of first cost, capacity and low sag

Meeting Ampacity Requirements -- Competitive Analysis										
Desired Current	ACCC [®]		ACCR		GAP		ACSR		AAAC	
	Conductor	\$ / Foot	Conductor	\$ / Foot	Conductor	\$ / Foot	Conductor	\$ / Foot	Conductor	\$ / Foot
1000	Linnet	\$3.80	Linnet		240	\$3.36	Gannet	\$3.06	800MCM	\$2.24
1260	Hawk	\$3.36	Hawk		240	\$3.36	Rail	\$2.84	630	
1400	Dove	\$3.69	Dove	\$13.84	280	\$3.92	Bunting	\$3.50	Aster 709-AL4	\$3.96
1520	Grosbeak	\$4.01	Grosbeak		310	\$4.39	Martin	\$4.63	Aucaria 821-AL5	\$4.56
1760	Drake	\$4.78	Drake	\$19.81	Drake	\$5.36	Lapwing	\$4.90	Aster1144-A4	\$6.39
1960	Cardinal	\$5.17	Cardinal		Matthew 620	\$6.57	2032	\$7.20	na	na
2300	Bittern	\$6.04	Finch		672	\$7.10	na	na	na	na
2650	Lapwing	\$7.29	Falcon	\$25.00	na	na	na	na	na	na
2870	Chukar	\$8.02	na	na	na	na	na	na	na	na
3240	Bluebird	\$9.15	na	na	na	na	na	na	na	na

*Competitors' pricing based on publicly available data *ACCC[®] prices intended to serve as reference for US-delivered projects and will ultimately be determined on a project-by-project basis *ACCC[®] prices based on aluminum & carbon prices as of 11/03/2010

ACCC[®] Conductor has become the clear economic alternative

ACCC[®] Conductor Value Proposition

Total Conductor Solution for Transmission Line Needs

Greater Strength & Reduced Sag

Decreased Structure Costs

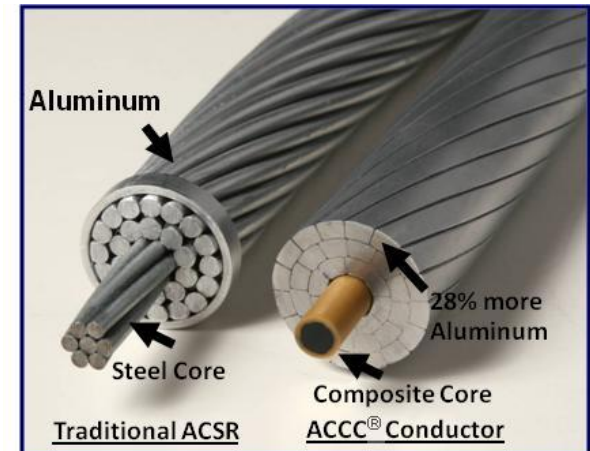
Increased Electrical Capacity

Reduced Line Losses

Decreased Fuel Consumption & Emissions

Lower Overall Lifecycle Costs

Outstanding Product Warranty

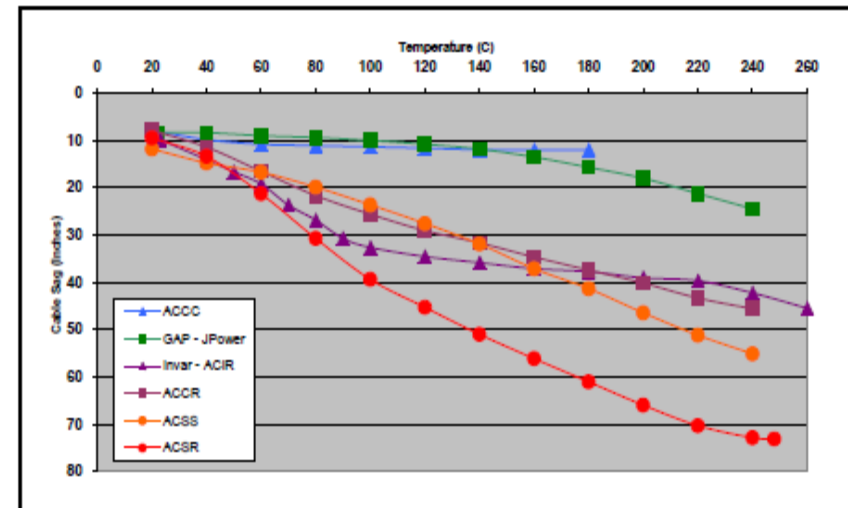


ACCC[®] Conductor Value Proposition

- **Ampacity**
 - ACCC[®] conductor can carry twice the current of a conventional conductor.
 - Lighter core allows the use of 28% more aluminum without a weight penalty.
- **Strength/Weight**

Hybrid Carbon Composite Core is stronger and lighter than steel core.
- **Longer Spans**

Greater strength and improved dimensional stability allows increased spans between fewer or shorter structures.
- **Ideal for Reconductoring**
 - Increase capacity while improving line clearance and losses.
 - Reduce strain on structures increasing life.

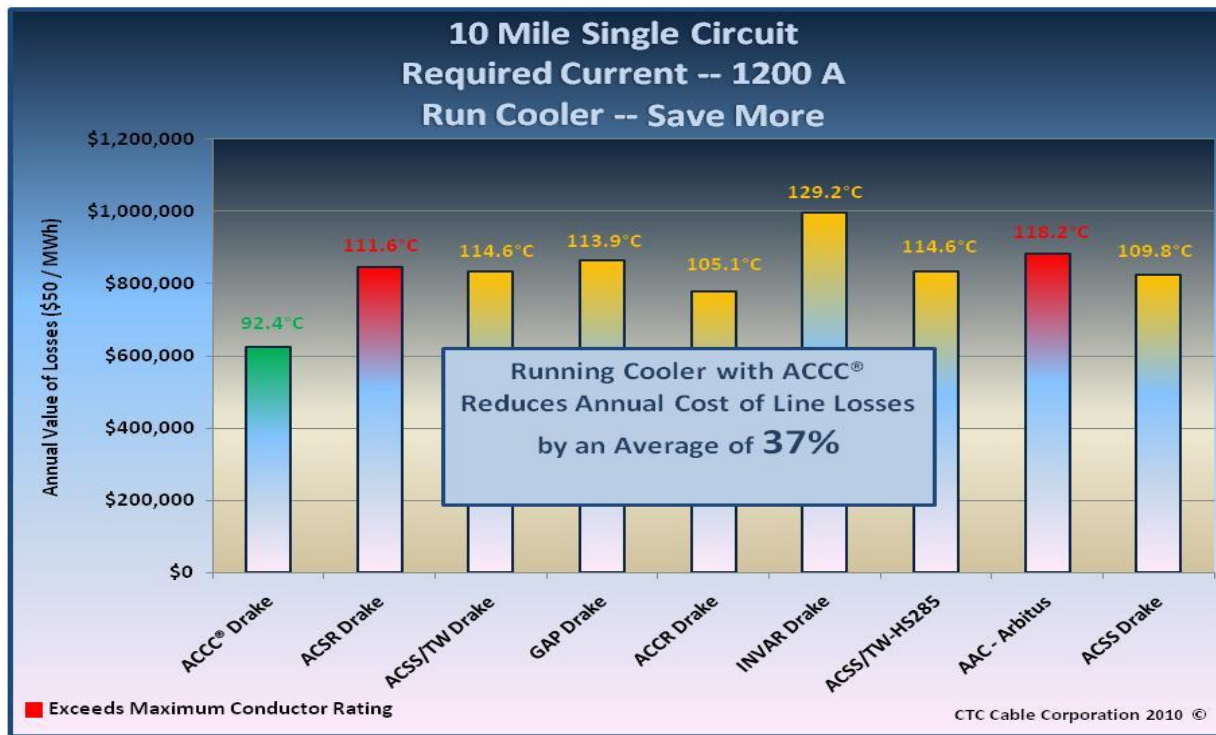


Increased Ampacity / Reduced Losses / Lower Overall Costs

Competitive Analysis

Run Cooler

- ACCC® conductor provides the needed capacity at lower temperatures
- Supports bare handing
- Compatible with line traps, CTs, PTs and hardware rated for below 200C



Key Assumptions: Single Circuit Line; Required Current – 1200 A; Cost of Generation \$50/MWh; Ambient Temp 25°C; Elevation 0°; Date – June 21; Emissivity = .5; Wind 2ft/second; Absortivity = .5; Latitude 30°; 1200 Amps Peak; 50% Load Factor; Sun Radiation 96

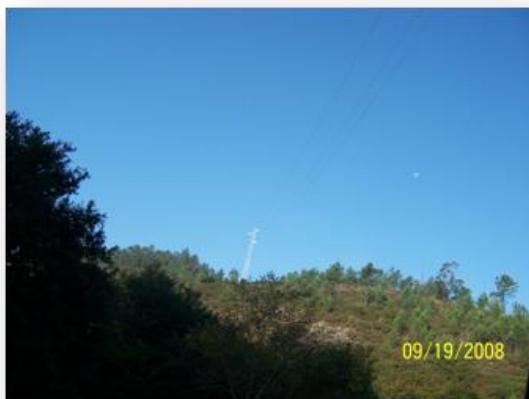
Customer Focus – Case Studies

NEO Energia – Wind Farm Link

Project Name: Galicia
Location: Spain
Objective: Increase Capacity to Expanded Wind Farm
Project Specs: 10.5 Mile / 69 kV / 79 Existing Structures
Constraints: Capacity / Mountainous Terrain / Reduced Line Losses Desired

Solution: ACCC® Amsterdam

Results: **Increased Capacity by Over 100%**
Reduced Line Losses



Customer Focus – Case Studies

Oklahoma Gas & Electric – High Capacity New Line

Project Name: McClain to S.W.134th and Penn Tap
Location: Oklahoma
Objective: High Capacity New Line
Project Specs: 5 Mile New Installation w/1,700 ft River Crossing / 138 kV
Constraints: Structural Costs / River Crossing

Solution: ACCC® Drake

Results: **Reduced Up Front Capital Costs by Reducing Structures**



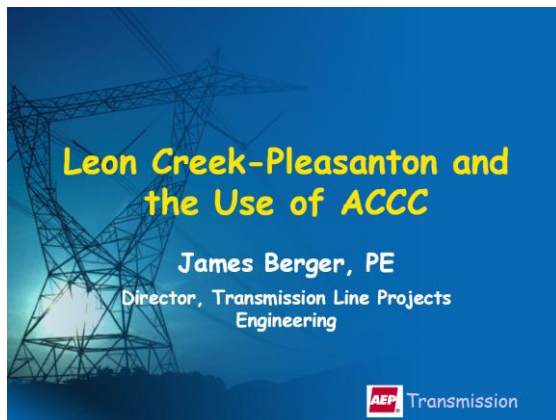
Customer Focus – Case Studies

AEP – Increase Line Capacity

Project Name: Leon Creek to Pleasanton
Location: Texas
Objective: Increase Capacity / Reduce Line Losses / Utilize Existing Structures
Project Specs: 15.7 Mile / 138 kV / 139 Existing Wood H-Frames – circa 1954
Constraints: Cost / Limited Outage Time Available / Capacity Upgrade Needed


Solution: ACCC® Drake

Results: **Increased Capacity by Over 100%**
Reduced Losses by .9 MW (1.1 MW System wide)
Minimal Structural Upgrades (Saved 139 Existing Wood H-Frames)



Leon Creek-Pleasanton and the Use of ACCC

James Berger, PE
Director, Transmission Line Projects
Engineering





Overall Transmission Constraints

- Ability to get construction clearances
- Clearance duration
- Increased capacity needed
- Pressure on using existing rights of Way





Why ACCC?

- Cost
- Properties-Sag
- Ampacity
- Structure Loading
- Installation
- Backing of General Cable
- Warranty



Customer Focus – Case Studies

Fujian Provincial Power – Extreme Spans

Project Name: Longyan
Location: China
Objective: Increase Capacity / Reduce Line Sag / Utilize Existing Structures
Project Specs: 2.9 Mile / 220 kV / 10 Existing Lattice Structures / 1,800 to 2,600 ft Spans
Constraints: Extreme Spans / 37 Under-built Lines / Mountainous Tropical Conditions

Solution: ACCC® Drake

Results: **Increased Line Capacity by 85%**
Reduced Sag / No Structural Upgrades
Installation Survived Two Major Typhoons



Summary

- **ACCC[®] conductor represents CTC Cable's commitment to provide advanced solutions to utility challenges.**
- **CTC Cable invests heavily in selecting "Superior" materials and rigorous product tests with third party certification.**
- **TLC cost factors and percentages represent a comprehensive view of utilities' costs.**
- **TLC costs provide a road map to drive costs down.**
- **Value-Based customers that focus on TLC costs will obtain maximum ROI.**