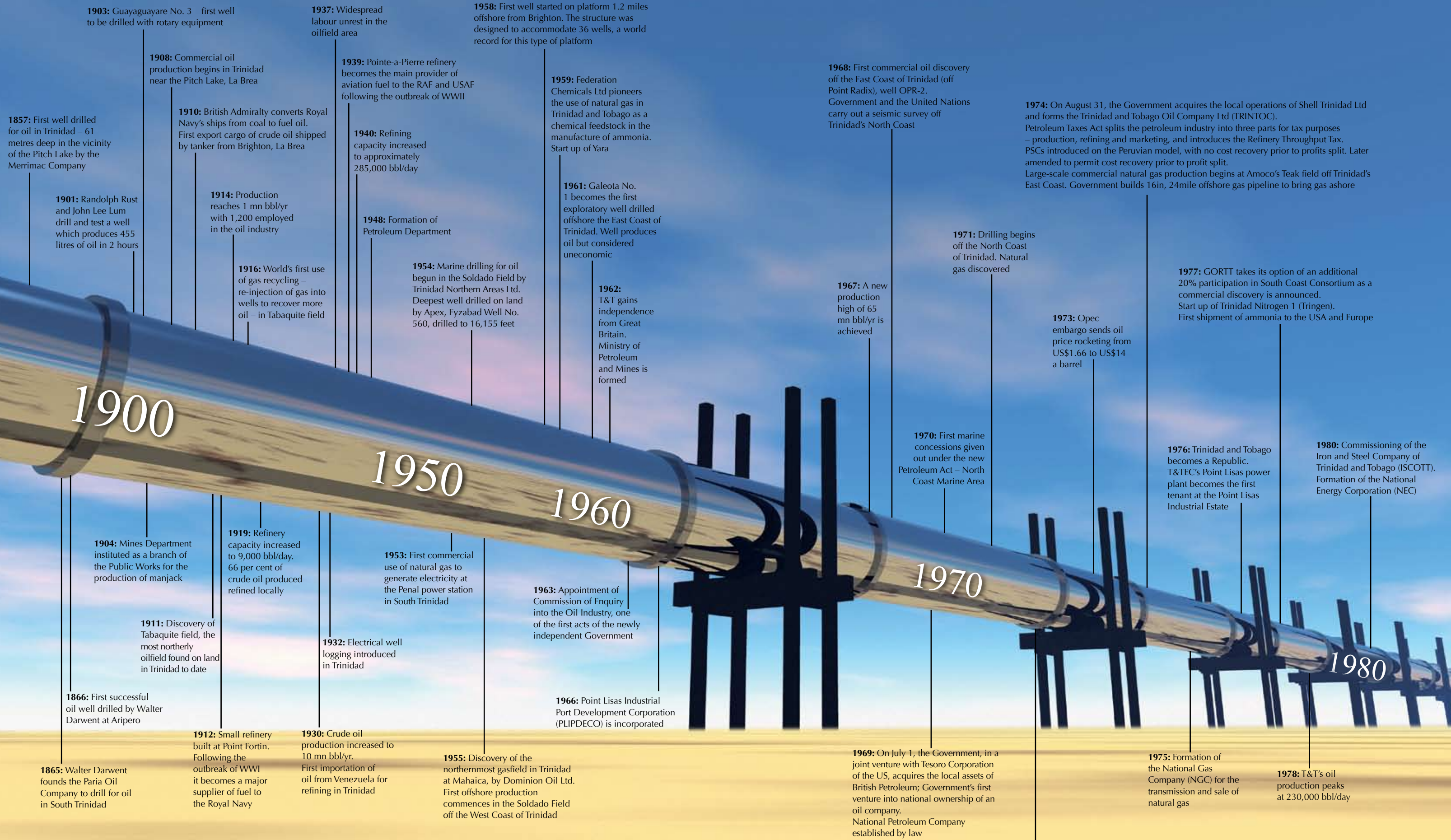


# Trinidad and Tobago Energy Milestones



**KEY:**  
 GORTT – Government of the Republic of Trinidad and Tobago  
 mn – million, bn – billion, mcf/day – million cubic feet per day  
 PSC – Production Sharing Contract  
 SPT – Supplemental Petroleum Tax  
 SECC – South East Coast Consortium  
 bbl/day, bbl/yr – barrels per day, barrels per year



**1983:** Cassia Gasfield comes on stream in May. Urea plant at Point Lisas commissioned in December. SPT for land operations reduced from 35% to 15%

**1992:** EOG Resources begins operations. EOG is currently contracted to sell gas to NGC and condensate to Petrotrin. Petroleum Taxes Act is amended to introduce a system of taxation for calculation of the SPT on a sliding scale instead of a fixed rate. NGC acquires the assets of NEC

**1984:** Crude oil production registers its first increase since 1978 with production rising from 155,078 bbl/day to 163,937 bbl/day. Start up of PCS Nitrogen II. Start up of Trinidad and Tobago Methanol Company (TTMC). First Methanol Plant at Point Lisas begins commercial production. GORTT carries out marine seismic survey over unlicensed areas off the North and East Coast of Trinidad. SPT on marine operations is reduced from 60% to 55% with effect from 1 January 1984

**1993:** The Petroleum Company of T&T (Petrotrin) is registered on January 21, with an authorised share capital of TT\$1.5 bn. Petrotrin is the single entity formed from the merger of the state-owned oil companies, Trintoc and Trintopec. British Gas signs a revised PSC with the Government of T&T. EOG and British Gas/Texaco lease marine fields Keskeede and Dolphin respectively. Start up of Caribbean Methanol Company (CMC)

**1995:** The Atlantic LNG Co. (ALNG) comprising Amoco Trinidad (34%), British Gas (26%), Repsol International Finance (20%), Cabot Trinidad (10%) and NGC (10%) is formed for the production and exportation of liquefied natural gas (LNG). Unleaded gasoline is introduced on the domestic petroleum product market. Blocks off Trinidad's East Coast are awarded in Phase 1 of the Competitive Bid Round. Agreement signed for the joint venture Farmland-Mississippi Chemicals ammonia plant. This will be the largest ammonia facility in the world

**1997:** Farmland MissChem Ltd commences operations in T&T. Messer T&T Ltd enters into joint venture with Neal and Massy to operate three industrial gas plants in Point Lisas. PCS Nitrogen Trinidad Ltd acquires Arcadian's operations. Announcement of results of Deep Water Bid Round. The preferred bidders are: Shell/Agip; Exxon, Union Texas, Arco/Braspetro. GORTT agrees to sell its 69% stake in TTMC to a consortium comprising CL Financial and German Companies Ferrostaal AG and Helm AG

**2005:** NGC invests in upstream gas development activity for the first time since Trintomar in 1988, taking 15% in Teak/Samaan/Poui (TSP) block purchased from bpTT by Repsol YPF. ALNG Train 4, the world's largest LNG train with a capacity of 800 mcf/day or 5.2 mn tonnes of LNG/yr, begins production at Point Fortin. Methanol 5000, the world's largest methanol plant with a capacity of 1.89 mn tonnes/yr, comes on stream. GORTT increases royalty on gas exports by bpTT to 10%, payable in kind, to obtain a gas supply for industries it wishes to encourage, such as aluminium smelting. Chevron/BG T&T's Manatee well in block 6d confirms existence of cross-border gas reserves with block 2 in Venezuela's Plataforma Deltana, also held by Chevron

**1985:** Amoco produces its 500 millionth barrel of crude oil, i.e. 22.6% of total crude production for the country at that date. The majority of the assets of Textrin are acquired by GORTT and vested in Trintoc. GORTT acquires Tesoro Corporation's 49.9% equity in Trinidad-Tesoro Petroleum Company Ltd.

**1991:** Start up of Hydro-Agri Trinidad. Phoenix Park Gas Processors Ltd commences operations

**1990:** Venezuela and T&T sign oil cooperation agreement

**1982:** TRINTOC enters into a processing agreement with Texaco Trinidad Inc (Textrin) for the processing of 1 mn bbl of crude oil. Installation work begins on the second cross-country pipeline by the National Gas Company (NGC)

**2000:** Agreement reached for expansion of Atlantic LNG Trains 2 and 3. Start up of Titan Methanol, the world's largest methanol plant. NGC's sales of natural gas exceed 1 bcf/day for the first time. Natural gas takes over from oil as the leading contributor to government revenue

**2004:** Start up of N2000 and International Steel Group (ISG). NEC assumes direct responsibility for the management of gas-based investment projects, industrial parks and harbours from NGC. Petrotrin granted an automatic stake in all exploration and production arrangements with foreign companies

**2007:** Eastern Caribbean gas pipeline given formal go-ahead by initial customer, Barbados. New gas discoveries in offshore blocks 5c (Southeast Coast) and 22 (north of Tobago). MEEI confirms that cross-border natural gas in blocks 6d (T&T) and block 2 (Venezuela) amounts to 10 tcf, 2.7 tcf of which is on the Trinidad side. Demonstration methanol-fired power plant established at Point Lisas with an installed capacity of 8.39 MW, opening the way for a new source of electricity for the Caribbean

**2006:** Launch of Cannonball Platform: first of a kind that is 100% locally constructed. Deepest offshore well (Ibis Deep) drilled by bpTT to 18,680 ft. BPTT drills Ibis Deep, the deepest well ever in T&T at 19,068 feet in SECC block but fails to find hydrocarbons. BHP Billiton makes the first oil discovery Kairi and Canteen in 2001 with the Kingbird and Ruby 1 wells in block 3a. NGC inaugurates the largest gas pipeline in the western hemisphere, the 56 in, 76.5 km Cross Island Pipeline (CIP) from Beachfield to Point Fortin, with a capacity of 2.4 bcf/day on free flow and 3.2 bcf/day with compression

**2001:** Titan Methanol Company begins production. Caribbean Nitrogen Company commences operations. BHP Billiton announces that wells Canteen 1 and Kairi 1 encountered significant oil and gas columns in previously untested Oligocene sands – the first offshore oil discovery since Amoco in 1968

**2003:** Start up of Atlantic LNG Train 3. Start up of Atlas Methanol. NGC's profit exceeds TT\$1 bn for the first time. BG T&T and partners begin production of natural gas offshore Trinidad's North Coast. Kairi 1 becomes the first offshore platform to be fabricated in T&T, by Damus in collaboration with Gulf Island Fabrication for BHP Billiton, Total and Talisman's block 2c

**2002:** First commercial gas produced from BG T&T North Coast Marine acreage. Start up of Caribbean Nitrogen Company Ltd and ALNG train 2. Commencement of Ultradeep 2D survey. BPTT begins installation of the world's second largest natural gas processing/production platform in Kapok Field. Production of natural gas begins from Hibiscus field on the North Coast. BHP Billiton declares commerciality of the Greater Angoustra Structure, reserves estimated at 1 bn bbl of oil & 1 tcf of gas. Vintage petroleum announces the first onshore gas and condensate discovery since 1957 at Carapal Ridge 1. BPTT becomes the first company to commit to maximum local content in its upstream operations. BG T&T drills the deepest deviated wells in T&T to date (22,000 ft) at its Hibiscus field off Trinidad's North Coast. BPTT installs the world's largest offshore gas processing unit, Cassia B, with a capacity of 1.6 bcf/day

**1996:** Start of construction of Atlantic LNG facility at Point Fortin. GORTT opens 3rd round of competitive bidding for 13 offshore leases for deep water PSCs between itself and international companies. Start up of TTMC II and PCS Nitrogen III

**1998:** Petrotrin's Pointe-a-Pierre Refinery Upgrade, a US\$355 mn project is completed and commissioned. Exxon Mobil Exploration & Production Trinidad Ltd signs a PSC in February. Trinidad Shell Exploration and Production BV signs a PSC in February. New Horizon commences operations in September. Start up of PCS Nitrogen IV and Methanol IV (MIV). Start up of Point Lisas Nitrogen Ltd. Amoco discovers oil at Immortelle Field estimated at between 40-70 mn barrels

**1986:** Oil price collapses to US\$8 per barrel. Compressed natural gas pilot project is launched and the first CNG filling station inaugurated

**1989:** Introduction of lease operatorship and farm-out programme. Signing of joint venture agreement for the formation of Phoenix Park Gas Processors Ltd. Caribbean Ispat commences operations in May. The Southern Basin Consortium, comprising Exxon, Total, Chevron, Trintoc and Trintopec is formed to carry out exploration in the deeper geological horizons in the southern half of the island

**1988:** Trintomar Ltd incorporated to develop and operate acreage held by the SECC. Comprises Trintoc 40%, Trintopec 40% and NGC 20%. Start up of Tringen II. GORTT revises SPT and announces major tax incentives for workovers and marine heavy oil production

**1981:** Start up of PCS Nitrogen 1. Petroleum Taxes Act of 1974 is amended to provide a more equitable treatment of all petroleum companies operating in T&T. Oil price begins to decline for the first time since the early 1970s