

# AN LED TIMELINE

2019

Many countries, including New Zealand, do not have any incandescent light bulb phase out policy currently in place

2007

Torraca becomes the first township to convert its entire illumination system to LED. Full or partial phase out initiatives on the production & importing of incandescent light bulbs began around the world.

2008

Audi is the first car to use fully LED headlamps

2006

SHUJI NAKAMURA wins the Millennium Technology Prize for development of a white LED

1993

SHUJI NAKAMURA creates high-brightness blue LED

1972

M GEORGES CRAFORD invents the first yellow LED - improving the brightness of red and red-orange LEDs

1971

JACQUES PANKOVE pioneers first blue LEDs

1976

THOMAS PEARSALL creates the first high-brightness, high efficiency LED's for optical fibre telecommunications

1968

LEDs are integrated into early Hewlett Packard hand-held calculators

1962

JAMES R. BIARD and GARY PITTMAN — received the first patent for an infrared LED.

1964

LEDs are used on circuit boards in an early IBM mainframe computer

1962

NICK HOLONYAK employed in General Electric, creates the first practical visible-spectrum LED in New York.

1952

KURT LEHOVEC applies for a patent for SiC visible lights LED's

1951

WILLIAM SHOCKLEY files a patent for an infrared LED

1958

RUBIN BRAUNSTEIN and EGON LOEBNER patent a green LED made from a lead alloy

1939

ZOLTAN BAY and GYORGY SZIGETI patent a silicon carbide electroluminescent lighting device, considered the predecessor to the modern-day LED.

1907

HENRY ROUND reports light emission from a crystal detector.

1927

OLEG LOSEV notes that silicon carbide crystal diodes used in radios glowed when excited by an electrical current.

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