The concept of Zigbee is associated with controlling all electronic devices and communicating with them self in the surrounding by using simple our mobile or P.c. by using this latest wireless technology. The serious problem in this world cables with tremendous growth in science this can with this. Zigbee act as sensor and controller Zigbee is operated at 2.4 GHz (ISM) bandwidth and IEEE standard is 802.15.4. This operated at low end frequency (HOME RF). It has data rate of 250 Kbps. This act as co-ordinate and slave. This gives commands and receives commands from other electronic devices. This technology forms PAN topologies. This can connect up to 65,553 devices per unit. It operated in 16 channels each channel take 868 Mbps. This is operated with in distance 75 to 100 Mts. The important feature of Zigbee is providing with memory and logical unit for first time. This helps in taking independent decisions by itself with need of co-ordinator, which help in sensor devices.

There are technologies, which already available in the market like Blue tooth. They’re some ensured suides in that which lead to develop Zigbee. It has major advantage that it has low power consumption (30 milli Amps). In blue tooth reacting time 3 seconds but in Zigbee it will take only 3 Milli seconds. Other advantage is that it provides high security to all electronic devices. Another imported thing is that it of low cost. This can all purpose in industries and home appliances….

It is very simple to operate by ever one.

By all my statements I can conclude that in future we are going to new world with cables, ever thing is done by single controls without using muti switches muti purposes. All electronic devices are provided with high security. Every thing is going to automatically this future project of Zigbee alliances. By supporting all the above statements I can say that “ZIGBEE IS TO BIG B”. 
“2.INTRODUCTION”

Now a days every electronic deceive is provided with sensor controller .It is every
difficult to provide charged batteries to controllers and also to maintain them. At same
time it must provide with logical thinking to protect deceive from wizards

Imagine your home appliances communicating with each other or you controlling them
using your cell phone or PC. You’re able to monitor and control the ambient temperature,
moisture and

Noises in the individual rooms, find out which room your kids are in or unlock the entry
door to let your friend in from a remote location.

In the not-too-distant future, all this will be possible with ZigBee, which is expected to
become a Big B.It would be common to find as many as a hundred of ZigBee chips
around the house in the form of light switches, fire and smoke detectors, thermostats,
kitchen appliances, video and audio remote controls, security systems, etc.

3.WHAT IS ZIGBEE”

ZigBee is a home-area network designed specifically to replace the proliferation of
individual remote controls. ZigBee was created to satisfy the market's need for a cost-
effective, standards-based wireless network that supports low data rates, low power
consumption, security, and reliability. To address this need, the ZigBee Alliance, an
industry-working group is developing standardized application software on top of the
IEEE 802.15.4 wireless standard. The alliance is working closely with the IEEE to ensure
an integrated, complete, and interoperable network for the market. For example, the
working group will provide interoperability certification testing of 802.15.4 systems that
include the ZigBee software layer.

The ZigBee Alliance will also serve as the official test and certification group
for ZigBee devices. ZigBee is the only standards-based technology that addresses the
needs of most remote monitoring and control and sensory network application

“4.WHY IS ZIGBEE NEEDED”

There are a multitude of standards like Blue tooth and WiFi that address mid to high
data rates for voice, PC LANs, video, etc. However, up till now there hasn't been a
wireless network standard that meets the unique needs of sensors and control devices.
Sensors and controls don't need high bandwidth but they do need low latency and very
low energy consumption for long battery lives and
comparision of Zigbee with other technologies

for large device arrays. There are a multitude of proprietary wireless systems manufactured today to solve a multitude of problems that don't require high data rates but do require low cost and very low current drain. These proprietary systems were designed because there were no standards that met their application requirements. These legacy systems are creating significant interoperability problems with each other and with newer technologies.

The ZigBee Alliance is not pushing a technology; rather it is providing a standardized base set of solutions for sensor and control systems.
| Standard | bandwidth | power consumption | protocol stack size | strong hold | applications |